

1 STATE OF MINNESOTA DISTRICT COURT

2 COUNTY OF RAMSEY SECOND JUDICIAL DISTRICT

3 - - - - -

4 The State of Minnesota,

5 by Hubert H. Humphrey, III,

6 its attorney general,

7 and

8 Blue Cross and Blue Shield

9 of Minnesota,

10 Plaintiffs,

11 vs. File No. C1-94-8565

12 Philip Morris Incorporated, R.J.

13 Reynolds Tobacco Company, Brown

14 & Williamson Tobacco Corporation,

15 B.A.T. Industries P.L.C., Lorillard

16 Tobacco Company, The American

17 Tobacco Company, Liggett Group, Inc.,

18 The Council for Tobacco Research-U.S.A.,

19 Inc., and The Tobacco Institute, Inc.,

20 Defendants.

21 - - - - -

22 DEPOSITION OF W. KIP VISCUSI, Ph.D.

23 Volume II, Pages 261 - 421

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1           (The following is the continued Deposition  
2 of W. KIP VISCUSI, Ph.D., taken pursuant to Notice of  
3 Taking Deposition, at the offices of Dorsey &  
4 Whitney, Attorneys at Law, 220 South Sixth Street,  
5 Minneapolis, Minnesota, on September 18, 1997,  
6 commencing at approximately 8:33 o'clock a.m.)

7

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1 P R O C E E D I N G S

2 (Witness previously sworn.)

3 W. KIP VISCUSI, Ph.D.,

4 called as a witness, being first duly

5 sworn, was examined and testified as

6 follows:

7 ADVERSE EXAMINATION (cont'd.)

8 BY MR. SILBERFELD:

9 Q. Morning.

10 A. Morning.

11 Q. Returning to the cost calculation you did which

12 is part of Exhibit 3812 that we spoke about

13 yesterday, does this analysis, in whole or in part,

14 apply to the claim of Blue Cross\Blue Shield of

15 Minnesota?

16 MR. ATKESON: Objection, calls for a legal

17 conclusion.

18 Q. From an economic or cost standpoint.

19 A. I don't know what Blue Cross\Blue Shield's claim

20 is. This analysis is the cost to the state, this

21 particular chart.

22 Q. Okay. Have you done any analysis of the claim

23 of Blue Cross\Blue Shield of Minnesota in any

24 respect?

25 A. I don't know what the claim of Blue Cross\Blue

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- 1 Shield is.
- 2 Q. That's not the question. The question is: Have
- 3 you done any analysis of it?
- 4 A. I can't -- I don't know if I can -- if my
- 5 analysis covers it until I know what their claim is.
- 6 Q. Well have you spent one minute of time thinking
- 7 about or analyzing any aspect of the claim of Blue
- 8 Cross\Blue Shield of Minnesota?
- 9 A. No.
- 10 Q. Do you have an understanding as to what Blue
- 11 Cross\Blue Shield of Minnesota is?
- 12 A. I was formerly insured by Blue Cross\Blue
- 13 Shield --
- 14 Q. Of Minnesota?
- 15 A. -- myself. Not of Minnesota, but of North
- 16 Carolina. I assume it's the Minnesota analog of it,
- 17 but I don't know exactly what they do.
- 18 Q. What do you understand it to be?
- 19 A. It's a health insurance company.
- 20 Q. Looking at Exhibit 3812, and specifically the
- 21 components of it that in your estimation from the
- 22 state model operate as deducts, if you will, does
- 23 Blue Cross\Blue Shield of Minnesota pay for nursing
- 24 home care as far as you know?
- 25 A. I don't know.

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1 Q. Would the pension effect that you describe in  
2 Exhibit 3812 apply in any respect to Blue Cross\Blue  
3 Shield of Minnesota?

4 A. To employees with pensions, so to the extent  
5 that they have employees it would apply just like to  
6 the extent the states have employees.

7 Q. So to the extent that Blue Cross's employees die  
8 early, Blue Cross\Blue Shield would not pay out  
9 pension benefits to those employees. That's the  
10 idea?

11 A. If that's the way their pension system works.

12 Q. Those same employees would have to be insured by  
13 Blue Cross\Blue Shield, those same smokers would have  
14 to be insured by Blue Cross\Blue Shield in order for  
15 the pension savings to operate as an offset against  
16 the medical care costs associated with smoking that  
17 Blue Cross\Blue Shield paid for; right?

18 A. I would think so.

19 Q. How about the "taxes on earnings" column, does  
20 that have any application to Blue Cross\Blue Shield  
21 of Minnesota?

22 A. Well if I were to count the pensions for some  
23 reason for Blue Cross\Blue Shield, I'd also want to  
24 count the contributions they did not make to the  
25 pensions.

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1 Q. Assume, if you will, that Blue Cross\Blue  
2 Shield's claim does not involve healthcare benefits  
3 for its own employees, but rather for people who were  
4 insured by Blue Cross\Blue Shield. In that event,  
5 the pension effect that you describe in Exhibit 3812  
6 wouldn't apply at all, would it?

7 A. I wouldn't think so.

8 Q. And the same is true of the taxes-on-earnings  
9 effect?

10 A. Yes.

11 Q. And to the extent that the State of Minnesota's  
12 claim is for people other than its own employees, the  
13 pension effect would not apply, would it?

14 A. Well they're still getting the benefit. We're  
15 asking from the standpoint of the state in these  
16 calculations what are their costs but for cigarette  
17 smoking, and from that standpoint, regardless of how  
18 you frame the claim, you want to ask what are the  
19 costs to the state, the net costs to the state that  
20 result from the particular activity.

21 Q. Putting the whole context of Medicaid costs  
22 aside, when an individual dies in the State of  
23 Minnesota and he's not employed by the State of  
24 Minnesota, he's employed by Dorsey & Whitney, does  
25 the State of Minnesota contribute some pension

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1 benefit that would have been paid had the person not  
2 died?

3 A. No. Not to that person.

4 Q. Okay. To a state employee.

5 A. Right.

6 Q. That's the concept.

7 A. That's correct.

8 Q. And do you have figures somewhere in the model  
9 as to what number of people in the State of Minnesota  
10 between 1978 and 1996 that got healthcare benefits  
11 related to smoking were state employees and private  
12 employees?

13 A. No.

14 Q. Is there an adjustment in the model that  
15 compensates or accounts for that fact?

16 A. No.

17 Q. Describe if you will, then, how you  
18 differentiate, if at all, between the pension  
19 benefits allocable to state employees and the pension  
20 benefits allocable to private firm employees.

21 A. The model only looks at pension benefits for  
22 state employees, so if there were no state employees,  
23 the pension benefit term is zero. So it's based on  
24 the number of employees, the pension benefit levels  
25 for these employees, and if neither of these things

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1 kicks in in a positive amount, that number is not  
2 positive.

3 Q. Okay. Which leads me back to something we spoke  
4 about off the record. I had made a request yesterday  
5 for the disk of the model that produced these  
6 calculations. Have you had a chance to think about  
7 that overnight?

8 MR. ATKESON: Well I've told you off the  
9 record that we're not going to produce it.

10 MR. SILBERFELD: And the reason is?

11 MR. ATKESON: He's not designated as an  
12 expert on that, this is his work, it's -- we don't  
13 have any control over it. It's just as if you'd  
14 asked for backup work for another one of his articles  
15 that's on that CV, and if he doesn't want to give it  
16 to us without somebody paying for it, we're not  
17 willing to pay for it and so the answer is no.

18 MR. SILBERFELD: Okay. So it's not your  
19 refusal; right? It's his refusal.

20 MR. ATKESON: Well he's not going to give  
21 it to us without us paying for it.

22 MR. SILBERFELD: That's the point.

23 MR. ATKESON: And we're not willing to pay  
24 for it, so the answer is we're not going to give it  
25 to you.

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1 BY MR. SILBERFELD:

2 Q. Okay. What's the charge for it?

3 A. I haven't thought of a charge.

4 MR. ATKESON: Let me just also say I don't  
5 think it's relevant at all, it's not called for on  
6 the judge's order and if you and I disagree on that  
7 we can argue with the judge, but having a legal  
8 argument with him as to whether or not it's relevant  
9 is not going to get us anywhere.

10 MR. SILBERFELD: I don't want to have a  
11 legal argument, I want to have a factual discussion  
12 with him.

13 Q. What's the charge for it?

14 A. I haven't set a price for it.

15 Q. Well, give me a range.

16 A. A hundred thousand dollars. It's about 25 days'  
17 work charged out at my daily rate.

18 MR. SILBERFELD: Well, we'll take it up in  
19 some fashion.

20 MR. ATKESON: Okay.

21 MR. SILBERFELD: And probably the most  
22 efficient way to do it is rather than call the court  
23 and have the court take this up out of order, even if  
24 we prevail on that that's not going to produce the  
25 disk here today so I don't see any urgency in doing

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1 this today. We'll probably take it up in the normal  
2 course of some discovery request.

3 MR. ATKESON: That's up to you. I think  
4 you need to figure out why it's relevant.

5 MR. SILBERFELD: Well I know why it's  
6 relevant. I think I put that out for you to  
7 consider. I think I did that yesterday.

8 MR. ATKESON: And I think we've explained  
9 to you why it's not relevant.

10 MR. SILBERFELD: I know. We have a  
11 disagreement about that. I hope you don't  
12 misapprehend why I think it's relevant. I hope you  
13 understand why I think it's relevant. It has to do  
14 with the entire issue of methodology, that's what it  
15 has to do with. And whether --

16 MR. ATKESON: It has nothing to do with the  
17 methodology. The methodology he's talking about in  
18 this is from a conceptual standpoint how do you  
19 analyze it, okay. It has nothing to do with actual  
20 numbers.

21 MR. SILBERFELD: And you're suggesting to  
22 me that we're not entitled to test the validity of  
23 the method by looking at actual examples that this  
24 man has done for the State of Minnesota. That's what  
25 you're telling me.

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1           MR. ATKESON: This is not anything he did  
2 for the State of Minnesota. This is an article he  
3 did on his own just coming up with national numbers  
4 for all 50 constituents. He did not do this for  
5 Minnesota or anything else.

6           MR. SILBERFELD: Including the State of  
7 Minnesota.

8           MR. ATKESON: Well it just happens to be  
9 one of the 50 states.

10          MR. SILBERFELD: Correct, it is.

11          MR. ATKESON: But you're going to get 12  
12 hours with Professor Foster, and he has come up with  
13 specific numbers for the State of Minnesota and he's  
14 going to be the one testifying in trial on that  
15 issue.

16          MR. SILBERFELD: We're back to filleting  
17 the opinions. Okay. Let's move on.

18 BY MR. SILBERFELD:

19 Q. Yesterday you were kind enough to have faxed to  
20 us your Alarmist Decisions paper. Do you subscribe  
21 to the view that a basic tenet in economics is that  
22 more information is better?

23 A. That's the reference point that people generally  
24 accept, and the whole point of the article is that  
25 more information can actually have a bad effect so

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1 that it's not necessarily better. So the point of  
2 the article is to basically undermine this tenet.

3 Q. So as you sit here today, do you believe that  
4 more information is not necessarily better?

5 A. Certainly, because there's problems with  
6 information overload, to name but one.

7 Q. Has it been well understood in the economic and  
8 the psychology literature, as far as you know, that  
9 conflicting information presents perceptual problems  
10 for the hearer?

11 A. I don't think it's been well understood. I  
12 think that's one of the things that I pointed out in  
13 this article, that people don't necessarily deal  
14 rationally with conflicting information. I'm not  
15 aware of the literature documenting this before this  
16 paper.

17 Q. Okay. You think this is the first paper in the  
18 world literature on this subject?

19 A. I don't know if it's the first paper, but it's  
20 the first paper that I've written, and I've never  
21 seen a formal test of that.

22 Q. You say on page 2, "one would expect people to  
23 have substantial difficulty in making reliable  
24 judgements in the instance of conflicting risk  
25 information."

1 A. Yes.

2 Q. You believe that.

3 A. Yes.

4 Q. So that in order to avoid that problem, would it  
5 be useful for government and industry to work  
6 together to provide the maximum amount of consistent  
7 information possible about a particular risk?

8 A. Lots of times there is not a con -- scientific  
9 consensus, and the point of this article is to try to  
10 figure out what happens when people have to process  
11 this conflicting information. And they certainly  
12 have problems doing it, but their problems are of a  
13 systematic type and we can say something quite strong  
14 about the character of the biases that result.

15 Q. And the thing that can be said is what?

16 A. In situations of conflicting risk information  
17 people gravitate to the high-risk estimate, so it's  
18 the worst-case scenario that dominates, whereas if we  
19 were to have some sort of consensus judgment that  
20 averaged the two risk assessments you would get  
21 people thinking that the risk was lower than they do  
22 in situations in which there is a debate about the  
23 risk.

24 Q. Did the hypothetical example that you used in  
25 the survey done in the Alarmist Decisions paper test

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1 for whether risk perceptions would affect behavior,  
2 or just the perception of the risk?

3 A. I don't recall whether this particular survey  
4 analyzed the behavioral -- subsequent behavioral  
5 linkage.

6 Q. Would you like to look at it?

7 A. I don't have the whole survey so --

8 Q. Oh.

9 A. -- that's one question that I wrote up, but we  
10 have other surveys that do look at behavior and we've  
11 shown that risk beliefs certainly affect behavioral  
12 intentions, and that's about all you can test in a  
13 survey where you hit people at a point in time in  
14 this manner.

15 Q. Have you done any testing to see whether risk  
16 beliefs, in addition to affecting behavioral intent,  
17 affect behavior?

18 A. We've done corroborative studies of our kinds of  
19 surveys for insecticides and household chemicals  
20 where we were able to show that the same kinds of  
21 affects you get with risk perceptions and risk  
22 perceptions linked to hypothetical behavior are  
23 mirrored almost exactly with actual patterns of  
24 behavior, and we did this using as reference points  
25 hazard warning labels that are currently on products

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1 and seeing how people use these products as compared  
2 to risk information we gave them in the survey  
3 context.

4 Q. And you found that perceptions and behavior  
5 tracked reasonably well?

6 A. For our surveys, the perception hypothetical  
7 behavior linkage proved to be almost identical to the  
8 actual behavior observed in almost all cases. The  
9 one exception was a seasonal fluctuation in risk for  
10 fleas.

11 Q. Have you tested that proposition with respect to  
12 smoking?

13 A. Well I have analyzed, with respect to actual  
14 smoking behavior, whether reported risk perceptions  
15 affect that. That has been tested statistically.

16 Q. And what have you found?

17 A. Increase in risk perceptions regarding smoking  
18 decreases smoking rates.

19 Q. Is that a paper that you published?

20 A. It's a chapter of my book.

21 Q. Of the Smoking book?

22 A. That's correct.

23 Q. In that chapter of the book did you compare and  
24 contrast adults and young people?

25 A. I tested for whether there was a significant

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1 difference between the two in terms of how risk  
2 beliefs could affect smoking rates, and I couldn't  
3 distinguish any statistically significant difference  
4 between how the risk beliefs affected smoking  
5 depending on your age.

6 Q. In terms of risk beliefs generally, does the  
7 level of maturity of the individual matter?

8 A. I found that older people have lower risk  
9 perceptions with respect to smoking, so by "maturity"  
10 if you mean does a 60 year old have a different risk  
11 belief than does a 21 year old, the answer is yes.

12 Q. And have you compared and contrasted how risk  
13 beliefs in certain age groups compare to behavioral  
14 intent and then behavior?

15 A. No.

16 Q. Has that been done by anybody, to your  
17 knowledge?

18 A. Well I've analyzed risk beliefs and actual  
19 behavior, and I've analyzed risk beliefs and  
20 behavioral intent each by age group, but I have not  
21 done both simultaneously with comparison for my  
22 studies.

23 Q. Have you done it with respect to smoking?

24 A. Risk beliefs with respect to behavior, yes.

25 Q. In various age groups.

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1 A. In various age groups.

2 Q. And that's in the book.

3 A. That's in the book.

4 Q. In terms of risk beliefs, have your studies  
5 caused you to reach any conclusion as to the effect  
6 of advertising on different age groups?

7 A. No. Not directly.

8 Q. How about inferentially?

9 A. I can't think of any major distinctions across  
10 age groups that we could make any inferences with  
11 respect to other than the fact that young people have  
12 a higher risk belief with respect to smoking than do  
13 older people, which suggests that the entire set of  
14 informational inputs they are receiving, including  
15 advertising, has lead them to think that smoking is  
16 very risky.

17 Q. Based on a belief in young people -- And I take  
18 it this is reasonably current-day information?

19 A. 1985.

20 Q. Okay.

21 A. 1997.

22 Q. Last 10 to 12 years.

23 A. Right.

24 Q. Based on young people's beliefs that smoking is  
25 very risky or at least the belief amongst young

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1 people that it's riskier than is believed by older  
2 generations of people, would you expect that higher  
3 perception of risk to lower the amount of smoking in  
4 that age group?

5 A. It does. That particular factor does. There  
6 are other factors at work, but that one influence  
7 does.

8 Q. What are the other factors at work?

9 A. The social acceptability of smoking among  
10 teenagers, the extent to which this may be viewed as  
11 a positive in terms of an act of rebellion. All of  
12 these kinds of factors could enter. Fans come and go  
13 among teenagers, smoking could be viewed as more "in"  
14 than it used to be. That sort of thing.

15 Q. Anything else?

16 A. Those are the main influences.

17 Q. Have you in the course of your study been able  
18 to control for any of these factors?

19 A. Not -- I haven't looked at any of them.

20 Q. So as you sit here today you can't tell us what  
21 -- the impact of any one of these is, much less the  
22 combination of them?

23 A. Much less whether these are more than  
24 conjecture. So these are just thoughts of the -- I  
25 don't know that any of these is true. I'm just

1 hypothesizing.

2 Q. These are sort of exploratory ideas.

3 A. Yes.

4 Q. In your judgment, could a model be created or a  
5 survey be created to test for the effect of these  
6 factors and control for the others?

7 A. Conceivably, but let's say you hypothesize that  
8 MTV is an influence because most rock acts on MTV  
9 have cigarettes that they're smoking. You could run  
10 an experiment to see who watches MTV and who doesn't  
11 watch MTV, but these are different kinds of kids. So  
12 it's unclear exactly how you could get a pure handle  
13 on all these issues.

14 Q. We talked yesterday about the difficulty of  
15 quitting smoking.

16 A. Yes.

17 Q. And without fencing with you about whether  
18 that's an addiction or a dependence or whether it's  
19 just hard to quit, is it true, based on your work,  
20 that the pleasurable effects of smoking have an  
21 impact on people's risk perceptions?

22 A. I don't know that that's the case.

23 Q. Have you ever looked at that?

24 A. Smoking status alone does not appear to affect  
25 risk perceptions so the causality goes in the other

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1 direction. But I don't know whether the pleasurable  
2 effect influences anything because we don't have that  
3 data or a good measure of pleasurable effects beyond  
4 what would be picked up in whether you smoke or not.

5 Q. When you say "smoking status," what -- I haven't  
6 heard that term before. What does that mean?

7 A. The fact that I smoke does not affect my risk  
8 perceptions, the causality goes in the other  
9 direction, risk perceptions determine whether I  
10 smoke.

11 Q. Are risk perceptions among smokers and  
12 nonsmokers the same about --

13 A. No, they're different.

14 Q. -- smoking?

15 A. No, they're lower for smokers.

16 Q. So that smokers have a lower risk perception  
17 about smoking than nonsmokers do.

18 A. That's correct.

19 Q. And do you believe that part of that difference  
20 may be accounted for by the fact that smoking has a  
21 pleasurable component to those that smoke?

22 A. No, because I've tested for that.

23 Q. Okay. Explain that to me.

24 A. So you can test empirically for whether smoking  
25 affects risk perceptions as opposed to risk

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1 perceptions affecting smoking, and you can reject the  
2 hypothesis that smoking affects risk beliefs. So at  
3 least overall there's no evidence that this is the  
4 case.

5 Q. What is the paper or article or part of the book  
6 that talks about that?

7 A. Well the strongest evidence is work I'm doing  
8 now with the 1997 audits and surveys data.

9 Q. What is that work?

10 A. Just statistical analysis of smoking behavior  
11 and risk perceptions.

12 Q. What is it you're doing?

13 A. Analyzing how the risk-belief responses affect  
14 smoking and whether there's a relationship, vice  
15 versa.

16 Q. How are you going about doing that?

17 A. Essentially testing the endogeneity,  
18 E-N-D-O-G-E-N-E-I-T-Y, of risk beliefs within the  
19 context of the smoking equation.

20 Q. What does that mean?

21 A. Does smoking affect risk beliefs or does risk  
22 beliefs just affect smoking?

23 Q. How are you doing that?

24 A. Exactly what I say. You run endogeneity tests  
25 for whether risk beliefs are driven by smoking within

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1 the context of that equation.

2 Q. What's an endogeneity test?

3 A. It's a test for whether the dependent variable,

4 in this case smoking, affects the explanatory

5 variable-risk beliefs.

6 Q. Is there some part of the survey data from the

7 '97 audits and survey information that you're using

8 to plug into this test formula?

9 A. Yes, I'm using the smoking responses and the

10 risk belief responses.

11 Q. Here it is. Can you just tell me which parts of

12 the '97 data you're using to run the endogeneity

13 tests?

14 A. I forget what our particular instruments are.

15 Q. What's an instrument?

16 A. It's a variable used to estimate another

17 variable so that you replace in your equation, let's

18 say, risk perceptions with an estimated version of

19 risk perceptions based on other variables that you

20 observe. So I believe in the case of either smoking

21 or risk beliefs some of the instruments we used are

22 things like whether you owned a PC. So the things

23 that you'd expect would be correlated with one

24 variable but not the other one could serve as valid

25 instruments.

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1 Q. Which ones did you use to make this  
2 determination?

3 A. Some of the things we used had to do with cable  
4 TV, whether you owned a personal computer. I don't  
5 see the variable list here.

6 Q. Was it part of the survey data?

7 A. Yes. The survey is longer than this, so these  
8 are just the risk-belief questions.

9 Q. So we have something less than all of it there,  
10 is that the idea?

11 A. Well you have the statistical summary of the  
12 survey results and a table that I prepared looking at  
13 the differences by age group, but the survey itself  
14 is longer than this. And I'm working with the survey  
15 data on an individual basis, I'm not working with  
16 these tables.

17 Q. So we don't have all of it there, is that the  
18 short answer?

19 A. You don't have the whole survey.

20 Q. Okay. Do you know why not?

21 A. I didn't give it to you. It's maybe not part of  
22 the report prepared by audits and surveys.

23 MR. ATKESON: You have what he's talking  
24 about on the disk, and that's the only form it's in.

25 MR. SILBERFELD: What disk?

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1           MR. ATKESON: The computer disk. Audits  
2 and surveys -- What happened here is that these  
3 questions were asked as part of a national survey.

4           MR. SILBERFELD: Right.

5           MR. ATKESON: And, you know, lord knows  
6 what other questions they asked, somebody else was  
7 testing, I don't know, Clorox or something at the  
8 time, so there's a whole series of unrelated  
9 questions. The written thing you got there is the  
10 report that we received from them, okay. In addition  
11 they have provided, starting with the state of  
12 Mississippi they asked for the disk with all the data  
13 on it and --

14          MR. SILBERFELD: Has that been provided to  
15 us?

16          MR. ATKESON: We provided that to each of  
17 the states.

18          MR. SILBERFELD: Including us?

19          MR. ATKESON: Including you.

20          MR. SILBERFELD: Okay.

21          MR. ATKESON: But we have not been -- I  
22 mean, there is no -- at least we have not been  
23 provide -- if there's a report that lists -- Let me  
24 step back a step.

25          Each of the people who contracted with audits

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1 and surveys to do this I don't think are aware of who  
2 else is asking questions so we're not allowed, I  
3 think, to see what other products are being tested or  
4 anything else. I think what's on the data disk is  
5 demographic information about the people who answered  
6 this so you could tell whether they come from the  
7 Northwest or Northeast, age, and then as Kip was  
8 talking about, whether you own a personal computer or  
9 a, you know -- those kinds of things. But that's all  
10 we have. And I've also provided you with --  
11 Mississippi asked for all of the papers that audits  
12 and surveys had, written material, and I provided  
13 that to Minnesota as well.

14 MR. SILBERFELD: Okay.

15 BY MR. SILBERFELD:

16 Q. I want to get back to endogeneity in a minute,  
17 but the last two pages of what we have here are  
18 prepared by you, sir?

19 A. I did that. That's the only thing in the report  
20 I did.

21 Q. And what are these two pages?

22 A. The main point is to track how risk perceptions  
23 vary depending on educational background. It's often  
24 been suggested by antismoking groups that since the  
25 less well educated tend to be smokers and the better

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1 educated are not, that the reason is because of  
2 ignorance. And what this document says is that the  
3 less well educated, if anything, have higher risk  
4 beliefs than do the better educated so that there  
5 doesn't appear to be any difference in risk beliefs  
6 across age groups that would account for this  
7 education difference.

8 Q. Now since we don't have the material in front of  
9 us, I want to get back to this issue of whether  
10 smoking depresses risk beliefs or risk beliefs  
11 depress smoking. That's the general idea of what  
12 we're talking about; right?

13 A. That's correct.

14 Q. In order to figure that out, the answer to that  
15 question, you look at things like whether people  
16 watch cable TV or own a PC?

17 A. Those variables are used as instruments in  
18 estimating risk perceptions to determine whether or  
19 not that variable is an -- is endogenous. So it's  
20 part of a statistical test, to use other variables  
21 outside your system in estimating your model.

22 Q. Describe to me in sort of hypothetical terms how  
23 you determine whether smoking depresses risk beliefs  
24 or risk beliefs depress the amount of smoking.

25 A. Well the big thing is simply to test whether

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1 within the context of the smoking equation the risk  
2 perception variable is endogenous, which simply means  
3 does smoking, which is the dependent variable, affect  
4 the explanatory variable, which is risk perceptions.  
5 And there are endogeneity tests that involve the use  
6 of other variables in the system to, in effect,  
7 construct an estimated value of risk perceptions as  
8 part of the endogeneity test.

9 Q. And you've reached a conclusion about this  
10 topic?

11 A. Yes.

12 Q. And that conclusion is?

13 A. Risk perceptions are not endogenous.

14 Q. So smoking behavior does not affect risk  
15 perceptions.

16 A. That's correct.

17 Q. It's the reverse.

18 A. That's right.

19 Q. Across all age groups.

20 A. I haven't done it by age group, but I can.

21 Q. Is this work part of some study you're doing?

22 A. Yes, it is.

23 Q. Paper you're writing or what?

24 A. A paper I'm writing.

25 Q. It's in progress?

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- 1 A. In progress.
- 2 Q. Has it been submitted to anyone?
- 3 A. Not a word has been written. Right now I have a
- 4 stack of tables.
- 5 Q. Does that study in any way account for the
- 6 effects of nicotine in cigarettes?
- 7 A. Well to the extent that smoking status involves
- 8 consuming nicotine, that would be part of it.
- 9 Q. Is that the only way?
- 10 A. Yes. I don't have any variable in the survey to
- 11 account for the nicotine content of what you smoke.
- 12 Q. Have you considered using as a variable, efforts
- 13 to quit by smokers?
- 14 A. I'm not sure that's in the survey.
- 15 Q. Have you looked?
- 16 A. I remember reading the survey about half a year
- 17 ago. I don't remember seeing a quitting question.
- 18 Q. Do you believe, survey work aside, that nicotine
- 19 in cigarettes affects people's decisions about
- 20 whether to smoke or continue smoking?
- 21 A. Well I think that's a complex question in that
- 22 people often say, you know, it's just the nicotine
- 23 that makes me smoke. On the other hand, we can
- 24 obtain nicotine in other ways, through nicotine
- 25 patches, nicotine gum, and I think the best thing in

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1 terms of an empirical test is the Premier cigarette,  
2 which we had a cigarette with lower minimal risk  
3 associated with it yet you could still get the same  
4 nicotine effect from a regular cigarette and yet  
5 people didn't buy it and they still don't buy the  
6 Eclipse. I think what this says is that people  
7 actually like to smoke. So it's not just nicotine,  
8 people enjoy smoking.

9 Q. I'm not suggesting for a moment that it's only  
10 nicotine, but is nicotine a significant factor in the  
11 decision making of smokers about whether to continue  
12 the habit?

13 A. I'm sure it's influential, just like caffeine in  
14 coffee makes coffee more attractive to people who  
15 like caffeine in coffee.

16 Q. Would it be important for your analyses if  
17 nicotine were in fact addictive?

18 A. No. I'm analyzing whether smoking is affected  
19 by risk beliefs, so that's the scope of my analysis.

20 Q. Would it be important for your analysis about  
21 risk beliefs if there was an addictive component to  
22 the smoking behavior? Would that matter at all?

23 A. I'm analyzing whether risk beliefs affect  
24 whether or not you smoke. I view nicotine as  
25 something that might affect the sort of black box in

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1 the middle that influences how it happens, but all  
2 I'm interested is -- in for the purposes of my study  
3 is the starting point risk beliefs and the outcome,  
4 and I would view nicotine as an intervening variable  
5 that would affect how the process works, but I'm more  
6 concerned with the result rather than the process.

7 Q. You don't believe the process has anything to do  
8 with the result?

9 A. It does, but if I can go to the punch line, I  
10 don't need to look at the process. So it doesn't  
11 matter to me whether cigarettes are white or whether  
12 they're all painted red. These sorts of intervening  
13 things aren't a concern so much as on balance what's  
14 the effect of risk beliefs on smoking.

15 Q. So does nicotine have nothing to do with risk  
16 beliefs, is that what you're saying?

17 A. I can't find an effect of smoking status on  
18 whether people think smoking is risky.

19 Q. Well if smokers have lower risk beliefs than  
20 nonsmokers, that is in part explained, according to  
21 you, by the fact that smokers may be just more risk  
22 intense or less risk averse than nonsmokers; right?

23 A. They may have more accurate risk beliefs. The  
24 sequel to the Alarmist Decision paper shows that  
25 smokers tend to be more on target in their risk

1 beliefs than nonsmokers. So they may be better at  
2 processing the various kinds of alarmist information  
3 they've received.

4 Q. Or they may adjust their risk beliefs along with  
5 their smoking behavior by the pleasurable component  
6 of smoking; namely, the nicotine.

7 A. I've already tested that and we've rejected the  
8 hypothesis that smoking behavior has the  
9 two-directional influence back on risk beliefs.

10 Q. Do you believe that the effects of nicotine  
11 affect free will in smokers' behavior?

12 A. I think you can always make decisions.

13 Q. What's the answer to my question?

14 A. No, I think people still have free will.

15 Q. And it's not an all-or-nothing black-or-white,  
16 it's a question of whether it affects it to any  
17 degree.

18 A. No, the choice options are always there, the  
19 costs associated with choices may differ.

20 Q. Well does it or does it not have an effect?

21 A. It doesn't affect your ability to make choices,  
22 it affects the payoffs associated with choices.

23 Q. So it affects choices?

24 A. It affects options as opposed to your ability to  
25 make choices, which would be free will.

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1 Q. Do you think that smokers' lower risk  
2 perceptions have anything to do with cognitive  
3 dissonance?

4 A. No.

5 Q. Why not?

6 A. That's also covered by the endogeneity test.

7 I'm also skeptical of a lot of the cognitive  
8 dissonance research.

9 Q. Why?

10 A. If it were that easy to suppress anxieties and  
11 fears about risks, the sleeping pill industry would  
12 not be as thriving as it is today. I think a lot of  
13 the cognitive dissonance research is not formal  
14 statistical tests as opposed to qualitative stories.

15 Q. Well do you think that the sleeping pill  
16 industry in this country is completely driven by  
17 people who just worry?

18 A. I'm sure that a lot of the purchases of sleeping  
19 pills are among that group who worry, yes.

20 Q. What percentage?

21 A. I don't know.

22 Q. So the literature about cognitive dissonance,  
23 you reject it?

24 A. I don't reject it altogether, but I don't think  
25 you can look everywhere and say, oh, there's

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1 cognitive dissonance every time everybody incurs a  
2 risk. Lots of risks are rational to take, that's the  
3 whole point of what economists have been arguing for  
4 decades about risk-taking behavior, and rather than  
5 accept this rationality people in other disciplines  
6 might suggest that it's cognitive dissonance, but  
7 there's no explanation or justification for these  
8 claims in many cases.

9 Q. The conclusion of the Alarmist Decisions paper  
10 is, at least in part, that even within the context of  
11 two pieces of risk information, decisions appear to  
12 be distorted when there is more than one information  
13 source.

14 A. Yes.

15 Q. If we were designing a new societal model today,  
16 I take it you would want there to be a single  
17 overarching information source about risks about a  
18 particular product or a particular industry; right?

19 A. If you knew the answer. I mean, it's hard if  
20 you have a single source and you're going to keep on  
21 changing your mind, because that's no better than  
22 having multiple sources with diverse risk judgements.

23 Q. Assuming you knew the answer and you were  
24 designing the new utopia today, you'd want a single  
25 information source; right?

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1 A. If you know the answer, that will prevent people  
2 from having exaggerated responses to risk.

3 Q. And the best single information source, if you  
4 knew the answer, would be the industry making the  
5 particular product.

6 A. The government. Why not the government? The  
7 government is the party without any vested interest  
8 in the information. Industry is not a -- generally a  
9 credible information source, and I'm talking about  
10 things other than risk. If a company declares, "buy  
11 our washing machine, it's the highest quality," why  
12 should you believe them? There's no cost to them  
13 making the claim. So that government is a more  
14 credible source.

15 Q. If government has the information.

16 A. If government has the information.

17 Q. If government doesn't have the information, and  
18 putting aside how businesses behave, in an ideal  
19 world businesses would tell the truth about their own  
20 products; right?

21 A. But even in an ideal world consumers would  
22 recognize that there's no cost to the business of not  
23 telling the truth, such as saying your dishwasher is  
24 better than it really is. So that's why people would  
25 discount claims made by the company.

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1           So it's very difficult for companies to make  
2 informational claims in the absence of credible costs  
3 that they are incurring because of the information  
4 provided. So the kinds of information that work for  
5 companies are things like warranties for products  
6 because that's costly for them to say this product is  
7 good for 10 years.

8 Q.    So that if a company makes a statement that has  
9 associated with it a credible cost, such as a  
10 warranty, then you believe the public has reason to  
11 rely on that statement?

12 A.    That increases their confidence as opposed to  
13 something where there is no cost to  
14 misrepresentation. If there's no cost to  
15 misrepresentation, then there's no reason for the  
16 public to place any weight on the information.

17 Q.    An example of no cost to misrepresentation would  
18 be "buy our washing machine, it's better."

19 A.    That's correct.

20 Q.    In the context of smoking, if a company were to  
21 come out this afternoon and say we submit that our  
22 cigarettes are a substantial risk factor for lung  
23 cancer, would you regard that as a statement that  
24 carries with it credible costs or a statement that  
25 has no cost to misrepresentation associated with it?

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1 A. Well I don't regard this as an accurate  
2 statement or as new information if it were rephrased  
3 accurately. But the more important problem is that  
4 this mechanism doesn't enable companies to go out  
5 there and say our cigarettes are less risky than,  
6 let's say, brand X, buy our cigarettes.

7 So you'd want a situation where everybody is  
8 permitted to make this claim, and the best way to do  
9 that is to have government ratings as opposed to  
10 private-industry statements. That's why I've  
11 recommended government ratings for cigarettes as  
12 opposed to individual companies making claims.

13 Q. Do you remember my question?

14 A. Yes.

15 Q. Would you like to hear it again?

16 A. I --

17 Q. Or can you answer it?

18 A. I've heard it, I've answered it.

19 Q. No, you haven't. Let me ask it again.

20 If a company were this afternoon to come out and  
21 say, "our cigarettes cause lung cancer," would that  
22 statement be a statement that carries with it a  
23 credible cost or a statement that carries with it no  
24 cost to misrepresentation as you used those terms?

25 A. There's no cost to the company saying our

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1 cigarettes don't cause lung cancer. So the trouble  
2 with these statements is that it's -- there's an  
3 asymmetry in that you're only talking about a  
4 statement that you're allowing companies to speak if  
5 they say that their product is worse than the average  
6 risk perceptions, and if the average risk perceptions  
7 is already too high, the only information you're  
8 going to permit is where companies mislead the public  
9 beyond the average risk beliefs. So I don't see any  
10 reason why you'd want to do this because that can't  
11 be a costly statement unless it's above the current  
12 risk perceptions.

13 Q. Oh, it may cost them a lot.

14 A. Only if it's above people's risk perceptions,  
15 which are already above the true risk. So only to  
16 the extent that you're lying to people will it impose  
17 costs. To the extent that people perceive the truth,  
18 it will lower costs and not be an effective signal of  
19 what you want to convey.

20 Q. If you'd been lying for 40 years and now you  
21 come out and tell the truth, that would have a  
22 tendency to increase your costs, wouldn't it?

23 A. People may pat you on the back, I don't know. I  
24 don't think that you can predict the reactions of the  
25 public if that's the way it's perceived as you

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1 characterized it.

2 Q. Without regard to the past, without regard to  
3 risk perceptions, if a cigarette company this  
4 afternoon were to come out and say our cigarettes  
5 cause lung cancer, not in relation to anybody else's,  
6 our cigarettes do that, would that statement carry  
7 with it credible costs, as you used the term, or no  
8 cost to misrepresentation?

9 A. As I've said, unless it makes people think that  
10 cigarettes are worse than they do now there would be  
11 no cost, and if cigarettes only have a probabilistic  
12 effect on lung cancer, then that's pretty good  
13 because smoking has been linked probabilistically to  
14 a lot of other outcomes as well. Let me also add  
15 that I don't think it's a correct statement or an  
16 informative statement to tell me smoking causes lung  
17 cancer because that implies certainty when there is  
18 none. So I would never convey information of that  
19 type.

20 Q. What would a tobacco company have to say, in  
21 1997, if anything, that would carry with it sort of a  
22 -- an aura of reliability because the statement  
23 carries with it credible costs about the health risks  
24 of the products? Anything?

25 A. I think the best thing would be to have

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1 government-sanctioned statements, and that would be  
2 credible because we know that the government has  
3 certified it. And that's what we have with hazard  
4 warnings on products. These are formalized  
5 statements approved by the government. Tar and  
6 nicotine rating systems set up by the government are  
7 great ideas as well. I think the safety ratings  
8 would be great ideas.

9 Q. Government-sanctioned statements are only as  
10 good as people's reliance on and belief in their  
11 government; right?

12 A. Right, but if the cigarette company's making  
13 statements sanctioned by the government there's good  
14 reason to believe that it's based on accurate  
15 information.

16 Q. Give me an example of your government-sanctioned  
17 statement about cigarettes. What should it say?

18 A. The on-product warnings for cigarettes.

19 Q. The existing ones.

20 A. These are government-sanctioned statements.

21 Q. Would you change them in any way?

22 A. If I did, I wouldn't do it based on my own  
23 conjectures. What I would want to do is field test  
24 different warning wordings and see which warnings did  
25 the best job of conveying the true risks of smoking

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1 and affecting smoking behavior in the desired  
2 direction.

3 Q. Have you seen any examples of proposed alternate  
4 warnings to the existing ones?

5 A. Yes, I have.

6 Q. And have you evaluated those as to whether you  
7 believe they would have a positive effect on risk  
8 perceptions?

9 A. I think they might increase risk perceptions,  
10 but I don't view that as a positive thing. I think a  
11 lot of the warnings such as the ones suggested by the  
12 AMA were designed mostly to scare people away from  
13 smoking as opposed to get people to the true risk  
14 belief, which should be our objective.

15 Q. If people got to the true risk belief, I take it  
16 more people would smoke.

17 A. That's correct.

18 Q. So you're in favor of that.

19 A. I'm in favor of information programs that tell  
20 people the truth and let the chips fall where they  
21 may, because the government has a role with respect  
22 to information not only with respect to cigarettes,  
23 but with respect to prescription drugs, the use of  
24 seat belts in cars and a wide variety of other areas  
25 of consumer safety where it's important to rep --

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1 develop a reputation for not lying to people.

2 Q. Well in the pharmaceutical context, between the  
3 pharmaceutical company and the consumer there's  
4 somebody else involved in the process, isn't there?

5 A. The government.

6 Q. How about the doctor?

7 A. There's a learned intermediary for prescription  
8 drugs, yes.

9 Q. And that doctor exercises judgment, hopefully,  
10 about what pharmaceutical products to use for a  
11 particular patient in a particular context; right?

12 A. That doesn't relieve the company of its  
13 informational responsibilities. You know that.  
14 That's why we have hazard-warnings cases.

15 Q. In terms of decision making at the consumer  
16 level, there is no like filter or intermediary for  
17 cigarettes, is there?

18 A. My doctor doesn't come with me when I decide to  
19 buy Advil instead of Tylenol, so there are products  
20 that are pharmaceutical products for which a learned  
21 intermediary does not assist in the decision making.

22 Q. Have you seen any of the on-package warnings  
23 that are in use for cigarettes in Canada?

24 A. Yes.

25 Q. Have you evaluated those as to whether or not

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1 they appropriately convey risks?

2 A. I do not like the Canadian plainer packs  
3 proposal, at least. I've not seen the extent to  
4 which they were enacted, but to the best of my  
5 knowledge there's no evidence that they get people to  
6 a truer risk belief so I've not tested their effect  
7 on risk perceptions. I've just seen the packs.

8 (Interruption by the reporter.)

9 A. I have just seen the packs.

10 Q. Do you have an understanding of the state of the  
11 medical and scientific knowledge about whether  
12 nicotine is addictive?

13 A. I'm not a doctor and I haven't read that  
14 literature in detail.

15 Q. Have you read it at all?

16 A. I read what the surgeon general says about it.

17 Q. And the surgeon general says it's addictive?

18 A. That's the label they've been using recently.

19 Q. And likewise a number of major medical  
20 organizations come to the same conclusion?

21 A. It wouldn't surprise me that if the surgeon  
22 general did something, other people would do the same  
23 thing.

24 Q. To the extent the surgeon general's reached that  
25 conclusion about nicotine being addictive, do you

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1 believe that that's part of an antismoking campaign?

2 A. It could be if they change the hurdle for what  
3 they regard as habituation versus addiction. I don't  
4 know exactly the process that went into it, but I  
5 have worked in government long enough to have some  
6 skepticism of whether science is always unbiased.  
7 There's often a political agenda to science. I just  
8 don't know what the nature of this process was.

9 Q. Do you believe that the health organizations  
10 such as the World Health Organization, American  
11 Psychiatric & Psychological Association and so forth  
12 have an antismoking bias if they've reached the  
13 conclusion that nicotine is addictive?

14 A. They might. I don't know.

15 Q. You don't have a view about that one way or the  
16 other?

17 A. I don't have a view. I don't know enough about  
18 how those organizations work.

19 Q. Is -- Based on your experience in government, is  
20 the goal of trying to avert or avoid the loss of  
21 400,000 lives a year a good public policy goal? Is  
22 that a good use of government effort?

23 A. Public policies should directed -- be directed  
24 at maximizing the benefits, minus the costs, to  
25 society. You could save 50,000 lives a year, almost,

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1 by banning motor vehicles. I don't think that's a  
2 good public policy goal because you can -- then can't  
3 drive cars. The same thing here. 400 lives a  
4 year --

5 Q. 400,000.

6 A. 400,000 lives per year involves people giving up  
7 the pleasures of smoking, assuming that that number's  
8 true.

9 Q. And in that balance you come down on the side  
10 of?

11 A. Letting people make their own decision, since  
12 theirs are the lives at risk, and we should inform  
13 them of what they're doing, but we shouldn't impose  
14 our preferences on them any more than I should  
15 prevent people in this room from eating too much at  
16 lunch and getting fat, which puts them at risk from  
17 coronary disease or other ailments.

18 MR. SILBERFELD: Take a break.

19 MR. ATKESON: Sure.

20 (Recess taken from 9:33 to 9:39 a.m.)

21 BY MR. SILBERFELD:

22 Q. Mr. Viscusi, I want to show you a document which  
23 has been previously marked as Plaintiffs' Exhibit  
24 263. And if I could direct your attention to the  
25 first page and then the last page just for the date,

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1 I want to ask you a question about it.

2 Let me represent to you that this is a statement  
3 of the Tobacco Industry Research Committee. Are you  
4 familiar with that organization?

5 A. No.

6 Q. You don't know what that is at all?

7 A. I do, but I'm not familiar with the  
8 organization.

9 Q. Well what's your understanding as to what it is?

10 A. It was some group set up by the tobacco industry  
11 to look into the medical consequences of smoking.

12 Q. This particular document is dated January 1954  
13 on the last page.

14 A. Yes.

15 Q. On the second-to-last page, under the heading  
16 "Limit of Powers," you see that?

17 A. Yes.

18 Q. There is the statement, "The purposes and  
19 objectives of the Committee are to aid and assist  
20 research into tobacco use and health, and  
21 particularly into the alleged relationship between  
22 the use of tobacco and lung cancer, and to make  
23 available to the public factual information on this  
24 subject." You see that?

25 A. Yes.

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1 Q. To the extent that this statement was made and  
2 made public by the Tobacco Industry Research  
3 Committee, do you believe that the American public  
4 had a right to rely on the statement at the time that  
5 it was made?

6 A. No.

7 Q. Why?

8 A. Well if you're coming up with good information  
9 and telling people good information, companies  
10 generally don't have the kinds of incentives that  
11 would lead the public to believe this evidence was  
12 credible, just like if instead of analyzing tobacco  
13 and lung cancer this was a washing machine  
14 manufacturer group and they said our intent is to  
15 analyze whether Whirlpool washers are the best  
16 washers made, or the quality of Whirlpool washers,  
17 not even saying that their intent was to analyze them  
18 to show that they're the best. When they come out  
19 and say that their washers are great, there's no  
20 credibility. So it depends on the character of the  
21 operations, but just providing information as an  
22 industry group doesn't necessarily give you  
23 credibility.

24 Q. This statement made in 1954 is not company  
25 specific, is it?

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1 A. No.

2 Q. Made by the industry as a whole.

3 A. They have the same self-interest that Whirlpool  
4 has, so that without knowing how the company's  
5 behaving consumers would tend to discount everything  
6 they say.

7 Q. So no one should place any value on a statement  
8 saying we commit to aid and assist in research into  
9 tobacco and health. Right?

10 A. That's not information. What -- What inference  
11 is the consumer supposed to draw from that? That's  
12 not very interesting information to the consumer, it  
13 doesn't enable you to raise or lower your risk  
14 beliefs.

15 Q. Does it amount to a commitment at least on the  
16 part of the industry to look into the issue of  
17 smoking and health?

18 A. It seems to involve some commitment to look at  
19 that, yes.

20 Q. And to the extent that the industry committed to  
21 look at that, would that not operate in some fashion  
22 as a level of reassurance to the public that at least  
23 somebody's going to look at it as of January of 1954?

24 A. It's public relations. I'm not sure to what  
25 extent people would rely upon this in any way.

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1 Q. To the extent anybody relied on it for the  
2 effect of believing that the industry was going to  
3 investigate in 1954 the health effects of smoking,  
4 would you regard such reliance as reasonable?

5 A. At what level? Are we assuming that consumers  
6 will believe that everything they would possibly want  
7 to know about cigarettes will be generated by this  
8 research effort?

9 Q. No. To the extent that there was a controversy  
10 in January of 1954 about smoking and lung cancer and  
11 this organization made the statement that I just read  
12 to you, would it be reasonable for the American  
13 public to conclude that they're going to do some work  
14 and they're going to research and try to find the  
15 answer? Without coming to any conclusion about  
16 whether the answer will be found, is that a  
17 reasonable conclusion based on this?

18 A. They could conclude that they would look at it.  
19 Whether or not they would find the answer is unclear.

20 Q. I wasn't suggesting that they would find the  
21 answer. At this point in this document 43 years ago,  
22 at a minimum the industry was making a commitment to  
23 look; right?

24 A. That's correct.

25 Q. And to the extent that that information was

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1 widely disseminated in newspapers, television, radio  
2 and so forth, do you believe that that might have an  
3 effect on risk perceptions?

4 A. I find this hard to believe in that if somebody  
5 comes out and says your product is risky and then you  
6 form a risk belief with respect to it and then the  
7 party with a vested interest in the sale of the  
8 product says we'll look at this, I don't think a  
9 consumer's going to lower their risk beliefs just  
10 because the manufacturers said they'd take a look at  
11 the problem.

12 Q. Does the statement that we're going to make a  
13 commitment to research the health effects of  
14 cigarettes amount to a statement that involves  
15 credible costs or no cost to misrepresentation, as  
16 you used those terms earlier today?

17 A. It's not a credible situation in that if they  
18 come out and say we give tobacco a clean bill of  
19 health there's no reason for anybody to put any  
20 weight on that information.

21 Q. Okay. Well they haven't done that in this  
22 document; right?

23 A. That's correct.

24 Q. We're jumping ahead. Let's not do that.

25 In this document, having made a commitment to

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1 research the health effects and find whatever the  
2 answer might be, maybe there's no connection, is that  
3 commitment one that carries with it credible costs or  
4 no cost to misrepresentation, in your judgment?

5 A. Well, once again, misrepresentation has to do  
6 with the outcome of the research, but if they're  
7 lying about not doing anything, what's the sanction?  
8 So let's say they say they're going to do research  
9 but they're really not going to do research. I don't  
10 see any penalty.

11 Q. It's still a lie, there's just no penalty.

12 A. There's no penalty. So even saying that they're  
13 going to do research doesn't seem to have any  
14 necessary credibility associated with it.

15 Q. Okay. I'm finished with that one.

16 MR. SILBERFELD: Let me mark as next in  
17 order a document entitled "A Scientific Perspective  
18 on the Cigarette Controversy," it bears Bates number  
19 CTR 000015 through 34.

20 (Plaintiffs' Exhibit 3813 marked for  
21 identification.)

22 BY MR. SILBERFELD:

23 Q. Mr. Viscusi, the document which is before you  
24 which is Exhibit 3813 is another Tobacco Industry  
25 Research Committee document, and I'll represent to

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1 you that the time frame is 1954 once again, same as  
2 the prior document.

3 Take a look if you would at the introduction  
4 page which is the third page of the document, last  
5 paragraph. It says at the bottom of the page there,  
6 These other authorities -- referring to the ones  
7 described in the paragraph above -- find no proof  
8 establishing that cigarettes -- cigarette smoking is  
9 a cause of lung cancer. Do you see that, sir?

10 A. Umm-hmm. Yes, I do.

11 Q. If this statement was made public in 1954, do  
12 you believe that that statement would affect people's  
13 risk perceptions, coming as it does from industry?

14 A. No, because if there's information out there  
15 indicating that there is a sharp rise in lung cancer,  
16 according to this other study, then people would  
17 gravitate toward the worst-case scenario based on the  
18 diversity of opinion.

19 Q. Is this an example where there is evidence on  
20 one side and now a statement of no proof on the other  
21 side of the situation? You described in your  
22 alarmist paper that judgements made in the presence  
23 of conflicting risk information when there is a  
24 diversity of viewpoints appear to be particularly  
25 prone to error.

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1 A. If you accept both information sources as being  
2 equally credible, which is the scenario that we  
3 analyzed in the paper, then people tend to gravitate  
4 toward the high-risk estimate. Here we're going to  
5 have two information sources; we have the Richard  
6 Doll, et al study indicating a sharp rise in lung  
7 cancer, and we're going to have a press release  
8 issued by this Tobacco Industry Research Committee,  
9 presumably citing scientists. So that the weight is  
10 not symmetric to begin with, and in terms of how  
11 people would process it, you'd expect them to focus  
12 on the worst-case scenario addressed by Dr. Richard  
13 Doll.

14 Q. Assume that the Doll information didn't receive  
15 public dissemination at the same level that the  
16 Tobacco Industry Research Committee information did.  
17 Now what's the effect?

18 A. But the tobacco industry information essentially  
19 is a response to something else so you're  
20 highlighting and giving added publicity to something  
21 you're responding to which is also going to increase  
22 risk perceptions.

23 Q. Take a look at the next page, if you would.  
24 Third paragraph from the end, referring to a public  
25 statement on January 4th, 1954, this document says,

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1 "...the position of the group comprising the Tobacco  
2 Industry Research Committee is that they 'accept an  
3 interest in people's health as a basic responsibility  
4 and paramount to every other consideration in their  
5 business'." You see that?

6 A. That's the industry -- That's that industry  
7 group, yes.

8 Q. To the extent that that statement was made  
9 public, do you believe that the public had a right to  
10 rely on that statement as true?

11 A. I don't think the public knows who the Tobacco  
12 Industry Research Committee is, I don't know who in  
13 particular the group is or what authority they have,  
14 and in general I don't think the public is swayed by  
15 these public-relations statements. There's no  
16 indication in the economics literature that such  
17 vacuous comments are taken credibly.

18 Q. So you would regard this as a vacuous comment?

19 A. Because there are no costs to them for  
20 misrepresentation, so unless you can show a cost to  
21 them of saying that we care about people's health,  
22 that's not a costly thing for them to say at that  
23 time, then this will not be an effective source of  
24 information.

25 Q. To the extent that this is a false statement,

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1 can that falsity impose costs?

2 MR. ATKESON: Objection, calls for a legal  
3 conclusion.

4 A. From an economic standpoint, if it turns out  
5 that health is not their paramount concern but it's  
6 their third most important concern, I don't see any  
7 economic cost so I don't see a problem.

8 Q. So to the extent that that's a  
9 misrepresentation, it would impose no cost.

10 A. I can't see any strong cost to holding people to  
11 the letter of this. This is not like George Bush's  
12 pledge of "no new taxes."

13 Q. It cost him.

14 A. It cost him, that was clear, but a paramount  
15 concern as opposed to the second most important  
16 concern or third most important concern, which still  
17 wouldn't be paramount, I don't see any real sanctions  
18 or accountability here and I don't think people take  
19 these kinds of public-relations statements seriously.

20 Q. Okay. Let me show you what's been previously  
21 marked as Exhibit 1148. Have you seen Exhibit 1148  
22 before?

23 A. Yes.

24 Q. This is the Frank Statement to Cigarette Smokers  
25 that was published in newspapers around the United

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1 States?

2 A. That's right.

3 Q. To the extent that this was put out in several  
4 hundred major newspapers, do you believe that that  
5 alone, and the content of it, would have an impact  
6 upon people's risk perceptions?

7 A. If anything it may increase risk perceptions. I  
8 don't see where this is necessarily calming material.

9 Q. I'm not suggesting it should either be calming  
10 or alarming, I'm just asking whether you believe the  
11 statement would have an effect on people's risk  
12 beliefs.

13 A. It could.

14 Q. Might, it might not, you can't say one way or  
15 the other?

16 A. That's correct.

17 Q. Why?

18 A. I don't know what other information they had at  
19 the time before they received this. What was in the  
20 paper the day before.

21 Q. To the extent that in the left-hand column near  
22 the bottom it says, quote, we have always -- "We  
23 always have and always will cooperate closely with  
24 those whose task it is to safeguard public health."  
25 To the extent that that represents a commitment to

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1 work with government on the health effects of  
2 cigarettes, would you regard that statement as  
3 reassuring to the American people?

4 A. I think I would label that as a public-relations  
5 nicety. I think most people are going to get the  
6 headline, recent reports on experiments with mice  
7 have publicized the smoking risks.

8 Q. Umm-hmm.

9 A. And that's the thing that jumps out at them.

10 Q. Is that the only thing that would matter to  
11 them?

12 A. I think essentially this ad you run into  
13 problems of information overload once you get past  
14 the first two paragraphs.

15 Q. To the extent that the cigarette companies  
16 wanted to convey to the American public their  
17 commitment to find the answers about smoking and  
18 health, would you regard the statement in number 1 on  
19 the right-hand side as that commitment?

20 A. What I take from this is that scientists say  
21 that it's risky. They're not dismissing these  
22 results because these are possibly good scientists,  
23 but they think they may not be fully conclusive.

24 MR. ATKESON: No, I'm sorry. He's talking  
25 about this paragraph number 1, not that 1

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1 (indicating).

2 THE WITNESS: Oh, right. Oh, I was on the  
3 left side.

4 .

5 Q. The one numbered number 1.

6 MR. ATKESON: There are two number 1's. He  
7 was on the one on the left, that's all.

8 (Discussion off the record.)

9 BY MR. SILBERFELD:

10 Q. Let me repeat the question because I obviously  
11 confused you.

12 The question is: The statement that's number 1  
13 on the right-hand side, would you regard that as a  
14 commitment to work on and try to find the answers  
15 about smoking and health as of this time in 1954?

16 A. They indicate they're going to look into it.  
17 I'm not sure how much of a commitment this is. They  
18 just say they're pledging to aid and assist the  
19 effort. So I'm not sure --

20 Q. Into all phases --

21 A. -- of this aid.

22 Q. You mean in terms of dollars you're not sure?

23 A. In terms of dollars or level or degree of  
24 commitment.

25 Q. Is that statement capable of interpretation that

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1 they're really not going to make an effort at all?

2 A. It's capable of the interpretation that it will  
3 be a modest effort. You don't know what they're  
4 going to do. There's no indication of how much aid,  
5 how much assistance, so this seems to be once again a  
6 more general public-relations type of statement.

7 MR. SILBERFELD: Let me mark as next in  
8 order a document entitled "Tobacco and the Public  
9 Interest." It bears Bates number R 00518172 to  
10 8183.

11 (Plaintiffs' Exhibit 3814 marked for  
12 identification.)

13 BY MR. SILBERFELD:

14 Q. Mr. Viscusi, Exhibit 3814 is an address before  
15 the National Association of State Departments of  
16 Agriculture in September of 1963 made by the  
17 president of the Tobacco Institute. Do you know what  
18 the Tobacco Institute was as of 1963?

19 A. A trade association on behalf of the tobacco  
20 companies.

21 Q. And this was a speech that was turned into a  
22 booklet of some kind. Is that a fair  
23 characterization of it?

24 A. It looks like it, yes.

25 Q. And it comes roughly nine years after the

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1 documents that we've just looked at. Turn if you  
2 would to page 5. In the middle of the page there's a  
3 paragraph that reads, "Those of us who work with  
4 tobacco share with the millions who use tobacco  
5 products a concern over questions raised about  
6 cigarettes and health."

7 It goes on, skipping the next paragraph,  
8 "Tobacco people have a double interest in this  
9 matter.

10 First, as human beings, we are interested in the  
11 health of our fellow man.

12 Second, we have a natural interest in the future  
13 welfare of our industry and of the industry's  
14 customers."

15 Do you see that?

16 A. Yes.

17 Q. To the extent that this statement was made  
18 public in or about 1963, do you believe that the  
19 American public had a right to rely on the statements  
20 made here about the interest expressed by the tobacco  
21 industry in the public's welfare?

22 A. No --

23 MR. ATKESON: Calls for a legal conclusion.

24 A. Without getting to the legal issue, from an  
25 economic standpoint there's no cost to any industry,

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1 whether it be the tobacco industry or the dishwasher  
2 industry, saying that we care about our consumers,  
3 and that's essentially what they're saying. So this  
4 is not an effective signal or an effective  
5 information transfer from an economic standpoint.

6 Q. From an economic standpoint do you believe that  
7 firms, industries that make statements of this kind  
8 should be held accountable for the statements they  
9 make?

10 A. No, because there's no guarantee or warranty  
11 associated with the claim, so when they make the  
12 claim they're not accompanying it with any formal  
13 cost provision. So that there's no reason as an  
14 economist to go around and start constructing  
15 contracts where they don't exist. We just take it as  
16 given. This person's making an unsubstantiated claim  
17 for which there are no costs. I'm not going to try  
18 to restructure the world. That's not what economists  
19 do. If they want to make a credible claim, let them  
20 offer a guarantee or a warranty.

21 Q. And if they don't make a guarantee or a  
22 warranty, then your view of the world is that people  
23 can make misrepresentations with impunity.

24 A. I'm saying from an economic standpoint people  
25 will dismiss this claim so that if he were to say

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1 smoking cigarettes will fly you to the moon, people  
2 would dismiss that as being false, and claims that  
3 have no effect on people's beliefs are not  
4 misleading.

5 Q. Would this statement have an effect on people's  
6 beliefs as of September 1963?

7 A. No, because there's no cost to him making this  
8 claim. So this is the kind of information that  
9 people are not going to say, gee, this company cares  
10 about me as human beings, unlike the dishwasher  
11 industry that didn't make this statement so I'm going  
12 to think differently about the tobacco industry than  
13 the dishwasher industry or the automobile industry.  
14 Any industry can make those claims.

15 Q. So as long as a company doesn't make a warranty  
16 that carries with it a cost, it's your view that they  
17 can make any statement they want without any  
18 consequences flowing from the making of the  
19 statement.

20 A. They can make whatever statement they want. Now  
21 the question is will the statement affect risk  
22 beliefs and --

23 Q. How about consequences to the company of having  
24 made a statement that's false? Should there be any?

25 MR. ATKESON: Again, aside from the legal

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1 question.

2 MR. SILBERFELD: Yeah.

3 A. Only if it can be shown that the statement  
4 affects people's behavior in a way that leads them to  
5 make mistaken decisions.

6 Q. That's the only time a company should be held  
7 accountable for a false statement.

8 A. Similar to the basketball rule: No harm, no  
9 foul.

10 Q. Okay. Let me show you what's been previously  
11 marked as Exhibit 304. Have you ever seen this  
12 document before?

13 A. No.

14 MR. ATKESON: Let me just ask you a  
15 question. The stamp at the bottom, does that  
16 indicate where it came from?

17 MR. SILBERFELD: Which stamp at the  
18 bottom?

19 MR. ATKESON: The "BATCo Limited -  
20 Minnesota Tobacco Litigation."

21 MR. SILBERFELD: I think so.

22 MR. ATKESON: Is that part of the original  
23 -- I assume that's not part of the original so  
24 that's --

25 MR. SILBERFELD: You got me.

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1 MR. ATKESON: Okay.

2 MR. SILBERFELD: I really don't know.

3 MR. ATKESON: That doesn't tell us where  
4 this came from. I mean, like this is an itinerary.  
5 Do we know whose document this is?

6 MR. SILBERFELD: Yeah, this is a BATCo  
7 document.

8 MR. ATKESON: Okay.

9 BY MR. SILBERFELD:

10 Q. Let me represent to you what this is, Mr.  
11 Viscusi, and that is in the period April to May 1958  
12 a number of people from British-American Tobacco  
13 visited the United States. This document is the  
14 report of their visit. The itinerary of their visit  
15 is shown on the second page, and in the introduction,  
16 which is the third page, they express the purpose of  
17 their trip which is to find out some information  
18 about various topics. One of the topics, number 1  
19 listed there at the top, is the extent to which it  
20 was accepted that cigarette smoke, quote, causes,  
21 closed quote, lung cancer. Do you see that?

22 A. Yes.

23 Q. And then in the middle of that page and going  
24 down to the bottom there's a discussion of what they  
25 found when they visited the various tobacco companies

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1 and medical colleges and universities, including  
2 Duke, that they visited in the course of their trip.  
3 That's the context of this document.

4 This document says, as of 1958, that "With one  
5 exception...the individuals whom we met believed that  
6 smoking causes lung cancer if by 'causation' we mean  
7 any chain of events which leads finally to lung  
8 cancer and which involves smoking as an indispensable  
9 link." You see that?

10 A. Yes.

11 Q. If that was the consensus view of the companies  
12 that were part of this visit as of 1958, do you  
13 believe that having that information made public  
14 would have assisted the public in 1958 in making risk  
15 assessments about smoking and health?

16 A. I don't see where the company here has any  
17 private information. All the information here is  
18 based on interviews with people that the government  
19 could interview, anybody could interview them.

20 Q. Well as of 1958 had the government interviewed  
21 people within tobacco companies to find out what  
22 their views were?

23 A. No, these are not interviews of people within  
24 the tobacco companies, these are just going around  
25 from school to school, including the National Cancer

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1 Institute, which is a government agency.

2 Q. And Liggett & Myers. That's not a government  
3 agency.

4 A. So a couple industry visits. For the most part  
5 it's all, or three industry visits. For the most  
6 part it's all universities. I'm not sure what the  
7 nature of their trip was.

8 Are these contacts with people who've actually  
9 done published research, or is this like a public  
10 opinion poll of 18 people on their whistle-stop tour  
11 through academia?

12 Q. Well put that aside and let's go back to my  
13 question.

14 As of 1958, had the government of the United  
15 States published or made available to the American  
16 people that lung cancer is caused by smoking?

17 MR. ATKESON: Are you asking him for his  
18 knowledge separate and apart from -- just if he knows  
19 what documents the government put out in 1958?

20 MR. SILBERFELD: Yeah.

21 MR. ATKESON: Okay. So it's unrelated to  
22 this.

23 MR. SILBERFELD: Oh, sure, it's unrelated  
24 to this.

25 MR. ATKESON: Okay.

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1 MR. SILBERFELD: It's in contrast to this  
2 is really the question.

3 A. I forget what the question was.

4 Q. Simple. As of the spring of 1958, had the  
5 United States Government said, in words or in  
6 publications, that smoking causes lung cancer?

7 MR. ATKESON: Other than what the National  
8 Cancer Institute people are saying here in this  
9 document?

10 MR. SILBERFELD: Publicly said.

11 A. The government can publicly say it.

12 Q. That's not the question. Did they, as of 1958?

13 A. I don't know what the government did in 1958.

14 Q. When's the first time the government said  
15 anything about the relationship between smoking and  
16 lung cancer?

17 A. I don't know. I know there's a report in 1964,  
18 but I don't know what happened before it.

19 Q. Isn't that the first time?

20 A. If I knew it was the first time I would have  
21 said it was the first time.

22 Q. If that was the first time, would this report in  
23 1958 represent new information which would be useful  
24 to the American people in making risk judgements  
25 about cigarette smoking?

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1 A. We don't know what the nature of the information  
2 that was gleaned from these visits was, so if, for  
3 example, these people came into my office and asked  
4 me about monetary policy and I showed up on this list  
5 I'd say, yeah, I think the interest rates are  
6 probably going to go up, and they'd go around and do  
7 a poll of people. That's different than getting  
8 people who are actually doing research on it and have  
9 findings.

10 So I don't know what the basis for the opinions  
11 are, whether these are people giving their take on  
12 other people's research or whether they're reporting  
13 their own research, and if it's that they're  
14 reporting their own research, it's already in the  
15 public domain, it goes out to the New England Journal  
16 of Medicine or Science magazine, and these things get  
17 picked up in the media.

18 So I don't know that there's any new  
19 informational content here from the fact that  
20 somebody took a trip around the country, which  
21 essentially is all that happened. There's no new  
22 knowledge being created, this is just the -- a walk  
23 around the country and a tour of some British Tobacco  
24 officials.

25 Q. If this was new information and represented the

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1 consensus view of four or five of the tobacco  
2 companies selling cigarettes in 1958 and they made  
3 that information public in 1958, do you believe that  
4 that information would be useful to the American  
5 public about making risk judgements?

6 A. As I've said, I don't know that it's new  
7 information --

8 Q. I'm asking you to assume that it's new  
9 information, that the companies knew it, and that  
10 they came public with it in 1958.

11 A. Well if it's not --

12 MR. ATKESON: Just a second. Are you also  
13 asking him to assume that all these other  
14 universities, Sloan-Kettering, and NCI knew it as  
15 well?

16 MR. SILBERFELD: I'm asking him to assume  
17 that.

18 MR. ATKESON: So you're asking him to  
19 assume the information contained in the report here  
20 that if all the -- it says "with one exception the  
21 individuals whom we met with believed," so you're  
22 ruling out three quarters of the list of people  
23 here? I mean, what are you asking him to assume in  
24 your hypothetical?

25 MR. SILBERFELD: Let me ask it again. It's

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1 really pretty simple.

2 Q. If the companies who are listed here,  
3 British-American Tobacco, American Tobacco, Liggett &  
4 Myers, Philip Morris, okay?

5 A. Where is this list?

6 Q. Under the itinerary, sir.

7 A. I see American Tobacco, Liggett & Myers, Philip  
8 Morris. Those three?

9 Q. And British-American Tobacco, who were the  
10 people making the visit. If those four accepted as  
11 true in 1958 that smoking causes lung cancer, and if  
12 they made that information public, and if that  
13 information was new, would the release of that  
14 information have been useful to the American public  
15 in making risk judgements?

16 MR. ATKESON: I'm just asking for this  
17 hypothetical you're assuming, then, that none of the  
18 other people listed here knew that information?

19 MR. SILBERFELD: I'm not assuming that at  
20 all. I'm just asking about the four companies,  
21 that's all.

22 MR. ATKESON: You're saying it's new  
23 information, and there's a list of -- a whole list of  
24 other people who seem to have known this. And the  
25 question is, when you're saying it's new, how does it

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1 relate to these other people?

2 MR. SILBERFELD: Okay. New --

3 MR. ATKESON: And the American public  
4 includes these other people, National Cancer  
5 Institute.

6 BY MR. SILBERFELD:

7 Q. I'm asking you to assume that the first widely  
8 disseminated statement about smoking and cancer was  
9 in 1964. If six years before these four companies  
10 had made this information public, would that  
11 information, if made public, have been useful to the  
12 American people in making risk judgements? That's a  
13 yes or no. You can explain your answer if you wish.

14 A. Well it's not yes or no so --

15 Q. Well it's yes or no or maybe.

16 A. So I'll answer --

17 Q. Go ahead.

18 A. I'll answer it and you can do with it whatever  
19 you want. I don't know that they're generating  
20 information. What it seems to be doing is they're  
21 generating opinions, and to the extent that they're  
22 generating opinions on published studies, which  
23 presumably is what they're asking people, I don't see  
24 that this opinion poll is new information. The  
25 nature of the tour seems to be there are these

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1 published studies out there about smoking and lung  
2 cancer, do you believe them? And most people say  
3 yes, I believe them. That to me is not new  
4 information, and if the government wants to form a  
5 consensus body to certify something, they can. The  
6 studies are already out there in the literature. I  
7 think this is only a question of the degree to which  
8 people have confidence in the studies.

9 Q. No, it's the degree to which this information is  
10 publicly available to the lay American public.  
11 Whether its opinions, or whether it's new  
12 information, whatever it is, if these four companies  
13 who knew this in 1958 --

14 You don't have any doubt that they knew this in  
15 1958, do you, based on this report?

16 A. What they knew is that most scientists they  
17 polled believed the studies linking smoking to lung  
18 cancer.

19 Q. Okay. That being the case, whether it's a  
20 statement of opinion or information, whatever it  
21 might be, assume it was not publicly known by the lay  
22 American public in 1958. Can you assume that?

23 A. No.

24 Q. You can't assume that?

25 A. Because these studies are in the literature.

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1 The newspapers cover this all the time. That's the  
2 whole reason why we had this series of ads concerning  
3 Sir Richard Doll's study, because this stuff is out  
4 there in the media.

5 Q. I'm asking you to assume for purposes of my  
6 question that the American public did not know that  
7 smoking causes lung cancer in 1958. Can you assume  
8 that?

9 A. This is five years after we had the Richard Doll  
10 controversy. Why should I assume away something that  
11 we know has already been highlighted in line one of  
12 the tobacco ad that there are these studies out there  
13 that show a lung cancer link. You can't get any more  
14 shrill than that in terms of an alarm.

15 Q. So you can't make the assumption, it's  
16 impossible for you.

17 A. Why make -- I see no reason to make an  
18 assumption that's not true.

19 Q. You know it's not true.

20 A. I know it's not true. If the --

21 Q. What --

22 A. The earlier exhibits you gave me show it's not  
23 true.

24 Q. What do opinion polls in 1958 show about  
25 people's awareness of the smoking-lung cancer

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1 connection. Do you know?

2 A. I know 1954.

3 Q. What's it in 1954?

4 A. Well that -- In the case of 1954 they asked is a

5 -- does smoking cause lung cancer?

6 Q. What did people say?

7 A. It's in my book.

8 Q. Less than half, right, believed it?

9 A. But I don't believe it either. I believe

10 smoking has a probabilistic effect, but it's not zero

11 one so it's a framing question.

12 Q. Do you believe that to the extent that this

13 information was known by the four companies, whether

14 it's a statement of opinion or a fact, that that

15 information would have been useful to the American

16 people in any way?

17 A. It's not private information. Anybody can do

18 this, anybody can do a poll. The government can do

19 this, consumer group could do this, this is not

20 unique research information about something the

21 companies know, this is just a public -- in essence,

22 this is a walk-around public opinion poll of some

23 scientists that they happened to visit on their trip.

24 Q. Let me show you what's been previously marked as

25 592. This is another British-American Tobacco

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1 document dated 1980. Let me direct your attention to  
2 the third page of the document entitled "CHANGE OF  
3 STANCE ON SMOKING AND HEALTH," and direct your  
4 attention to the paragraph numbered 3 under "THE  
5 CURRENT SITUATION." Do you see that?

6 A. Yes.

7 Q. It says, "A major difficulty for us is that  
8 public and medical opinion has changed so much over  
9 the past twenty years that our stance on smoking and  
10 health - that we are not doctors and cannot make  
11 judgements - is no longer credible. In fact it is  
12 working against us and the international reputation  
13 which is the basis of our success, is being eroded."  
14 Do you see that?

15 A. Yes.

16 Q. If in 1980 the British-American Tobacco Company  
17 had come out and said whatever our stance has been  
18 for 20 years, our beliefs about smoking and health  
19 are no longer credible, if they'd made that statement  
20 as they did in this document but they made it  
21 publicly, do you believe that that statement would  
22 have affected people's risk beliefs?

23 A. I don't take from this statement what you're  
24 taking from it. I think what they're saying is that  
25 they're not the medical community and they weren't

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1 making judgements regarding smoking, and saying that  
2 that's not credible is different from what you are  
3 implying, which is that the statements they were  
4 making were not credible.

5 Q. Well it says that "our stance on smoking and  
6 health...is no longer credible." Right?

7 A. And their stance, as I interpret this, is that  
8 I'm not making judgements on the health aspects, in  
9 effect they're taking a standoff attitude in not  
10 entering the fray on the medical debate. So they're  
11 standing on the sidelines on the medical issue.

12 Q. And do you believe if they'd come out in 1980  
13 and said we're not doctors and can't make judgements  
14 that that fact would have been useful in any way to  
15 the American public in making risk judgements about  
16 smoking and health?

17 A. That apparently is the theme of what they had  
18 been saying, that they are not doctors and cannot  
19 make judgements.

20 Q. What's the answer to my question?

21 A. That was it. That's what they've been saying,  
22 so --

23 Q. Would it have made a difference to the public,  
24 sir? That's the question.

25 MR. ATKESON: His answer -- It's his

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1 understanding from this that that's what they had  
2 already been saying, so that wouldn't be a change.

3 MR. SILBERFELD: He didn't say that. You  
4 said that.

5 THE WITNESS: That's what I said.

6 MR. ATKESON: He said it, you can read his  
7 answer.

8 Q. It wouldn't have made any difference, is that  
9 what you said?

10 A. That's what the point of this is. They are  
11 saying we're not doctors and can't make judgements.  
12 That's been their theme, according this statement.

13 Q. And if that theme as of 1980 was in their  
14 judgment no longer credible and they came out and  
15 said it's no longer a credible position for us, would  
16 that have been of any benefit or use to the American  
17 public?

18 A. No, because you don't know what they're saying.  
19 To say that our past position is no longer credible,  
20 we have to now discuss this, well now what are you  
21 going to say? To say that we have a past position  
22 that's not credible doesn't imply what your new  
23 position is.

24 Q. So had this statement that I've just read to you  
25 been made public, that would have been of no use or

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1 benefit to the American people.

2 A. I don't think this would even hurt them from a  
3 public-relations standpoint. This looks pretty  
4 neutral to me.

5 Q. I show you what's been previously marked as 502,  
6 another British-American Tobacco Company document.  
7 If I could direct your attention to the second page  
8 of it, at the letter m) it says, "The company's  
9 position on causation is simply not believed by the  
10 overwhelming majority of independent observers,  
11 scientists and doctors." Do you see that?

12 A. Yes.

13 Q. To the extent that that was the company's belief  
14 as of 1980 when this document was created, do you  
15 believe they had an obligation to make that  
16 information available to the public?

17 A. To tell people that most people disagreed with  
18 their position?

19 Q. Yes.

20 A. Not if you believe in your position.

21 Q. It's not a question of whether they believe in  
22 it.

23 A. If I believe in my position, whether or not  
24 other people agree with me doesn't really matter. To  
25 me I will go out with what I believe.

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1 Q. Would the fact that the company's position is  
2 not believed by the overwhelming majority of  
3 observers, scientists and doctors, have been a useful  
4 bit of information to the American people as of 1980  
5 on the issue of smoking and health?

6 A. Let's see, this is 16 years after we've had  
7 on-product warnings that announce that there is a  
8 risk associated with smoking, we have annual reports  
9 to the surgeon general that have been issued for well  
10 over a decade highlighting risks associated with  
11 smoking. I'm not sure what position it is that  
12 you're talking about here since the company puts on  
13 all of its products hazard warnings. Is this the  
14 position they take in court cases? Is this the  
15 position for public announcements? Is this the  
16 position in advertising? Certainly there are many  
17 many formal ways in which the company is providing  
18 the information through both on-product warnings and  
19 through ads as of 1980. So I'm not sure what this is  
20 even pertaining to.

21 Q. You've not seen any evidence of the cigarette  
22 industry espousing the theme that the issue of  
23 smoking and health is not proven, or that there's a  
24 controversy, or that there's doubt about the  
25 relationship? You've not seen anything to that

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1 effect?

2 A. Oh, I've seen that but --

3 Q. What's the effect of that?

4 A. I view that, the effect of that is that people  
5 will finally start to think of smoking in  
6 probabilistic terms. And the risks associated with  
7 smoking are probabilities, and the antismoking groups  
8 are always trying to create a situation in which the  
9 risks are viewed as certainties, statements such as  
10 smoking causes X, and the probabilistic view is  
11 closer to the scientific truth.

12 Q. To the extent that firms such as  
13 British-American Tobacco were espousing the view that  
14 there's doubt about the relationship of smoking and  
15 disease or that there's a controversy, if that's the  
16 position being described as unacceptable in this  
17 document and not believed by the overwhelming  
18 majority of scientists, et cetera, if the company had  
19 made that public do you believe that that would have  
20 been of any use or benefit to the American people in  
21 making risk decisions?

22 MR. ATKESON: The hypothetical is that the  
23 company had said scientists, doctors and observers  
24 don't believe us?

25 MR. SILBERFELD: Right.

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1                   MR. ATKESON: Other than that, what  
2 scientists, doctors and observers were already doing  
3 in general?

4                   MR. SILBERFELD: Just using this document  
5 for what it says.

6 A. I'm not sure what it is the company's going to  
7 say because I believe there is still a debate over  
8 the risks associated with smoking in terms of the  
9 magnitude of the risk. So that if you look at  
10 surgeon general's estimates, coupled with the  
11 population statistics, I estimated the death risk  
12 associated with smoking as being somewhere in the  
13 range of .18 to .36, something of that neighborhood  
14 which is a fairly wide band. So there's still  
15 remaining tremendous uncertainty regarding the  
16 magnitude of the risk so I don't view statements  
17 regarding the fact that everything has not been  
18 nailed down with precision as being inaccurate.

19 Q. I show you what's been previously marked as  
20 Exhibit 404. This is a 1968 document from Hill and  
21 Knowlton. Do you know who Hill and Knowlton is?

22 A. Public relations firm?

23 Q. Right. Do work for the tobacco industry.

24 A. Do they?

25 Q. Do they?

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- 1 A. Do they?
- 2 Q. Do you know?
- 3 A. I don't know.
- 4 Q. Do you see the subject of this memo, "Tobacco  
5 and Health Research Procedural Memo"?
- 6 A. Yes.
- 7 Q. At the bottom of the page there is, under the  
8 heading "SELECTION OF MATERIAL," a discussion of what  
9 types of materials should be selected and what the  
10 criteria for selection are. Do you see that?
- 11 A. Yes.
- 12 Q. On the top of page 2 is a statement that says,  
13 referring to the tobacco and health research  
14 document, "The most important type of story is that  
15 which casts doubt on the cause and effect theory of  
16 disease and smoking." You see that?
- 17 A. I do.
- 18 Q. To the extent that the goal, as of 1968, of the  
19 tobacco industry was to cast doubt on the  
20 cause-and-effect theory of disease and smoking, what  
21 effect would that have on the public's perception of  
22 risk?
- 23 A. Well this is not the tobacco industry, this is a  
24 marketing firm outside of the industry.
- 25 Q. Directed to the tobacco industry -- institute;

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1 right?

2 A. I don't know what the Tobacco Institute had as a  
3 reaction to this.

4 Q. Assume that they adopted it. What would the  
5 effect be on the public's perception of risk related  
6 to smoking?

7 A. I don't understand what this group is doing  
8 other than Xeroxing articles and mailing them to the  
9 Tobacco Institute.

10 Q. What's the answer to my question, sir?

11 A. I see no effect on the public of Xeroxing  
12 articles from a medical journal and sending them to  
13 the Tobacco Institute.

14 Q. To the extent that it was Hill and Knowlton's  
15 job to issue press releases and make publicly  
16 available medical articles which cast doubt on the  
17 cause-and-effect theory of disease and smoking, what  
18 would that act do to the public's perception of the  
19 risks of smoking?

20 A. It might give them a more balanced view to the  
21 extent that articles documenting risks will receive  
22 more publicity in that they would be more  
23 newsworthy. It's always true in economics, for  
24 example, that it's much easier to get attention or to  
25 publish articles that show effects as opposed to

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1 articles that don't show effects so that there's a  
2 systematic bias in science against publishing papers  
3 in which there are no effects. So this would be  
4 attempting to redress that imbalance.

5 Q. So making a concerted effort to cast doubt on  
6 the cause-and-effect theory is a good thing, in your  
7 view?

8 A. Well what they're doing is only finding articles  
9 published in established medical journals and  
10 disseminating scientific accepted articles to the  
11 general public, and I see nothing wrong with  
12 attempting to create a sense of balance, particularly  
13 given the incentives of the scientific literature and  
14 the popular press to give greater publicity to  
15 studies which find effects as opposed to studies  
16 which don't find effects.

17 Q. Nothing wrong with trying to inject a sense of  
18 balance if that's your goal; right?

19 A. If that addresses what is currently an  
20 imbalance. It doesn't matter what your goal is, but  
21 if there's currently an imbalance, trying to have  
22 more balance leads people to have a more accurate  
23 judgment.

24 Q. If your goal is to cast doubt on a theory, if  
25 that's your goal, --

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1 A. No. The stories themselves are the ones that  
2 cast doubt, these are stories based on the medical  
3 literature so it's not what we're doing or they're  
4 doing as part of their efforts, but they're  
5 identifying medical studies that cast doubt. That's  
6 the most important type of story that they're trying  
7 to identify, and they're just trying to disseminate  
8 those, they're not trying to say that their efforts  
9 are to do that.

10 Q. Well they're identifying that the most important  
11 type of story to disseminate through their efforts is  
12 one which casts doubt; right?

13 A. That's correct.

14 Q. And if someone intentionally sets about, in a  
15 controversial situation, to cast doubt rather than  
16 answer a question, what's the effect of that on risk  
17 perceptions?

18 A. They're just trying to prevent -- present the  
19 other side, and if there's already stories that have  
20 been given inordinate publicity on the other side  
21 then you would want to give these stories on the  
22 opposite side a leg up in terms of enabling the  
23 public to get a balanced perspective.

24 Q. That's not what they say.

25 A. Excuse me, let me finish the sentence.

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1           It's well established in the literature that  
2 newly identified risks are overly publicized. This  
3 was a newly identified risk and it's going to receive  
4 excessive publicity compared to its true nature based  
5 on the scientific evidence available at that time.

6 Q.   The identified risk was new as of '68?

7 A.   Well, it was evolving. The information  
8 regarding the risk was evolving, and it's still  
9 evolving. We don't, for example, know what the risk  
10 of environmental tobacco smoke is. This is still  
11 very much in the air.

12 Q.   In more ways than one.

13           You said earlier that -- when we were talking  
14 about the Frank Statement, the newspaper ad, that  
15 people generally don't get much past the first couple  
16 of sentences.

17 A.   Well they'll have the -- by far the greatest  
18 impact, the first few pieces of information.

19 Q.   Would headlines also have a great impact, such  
20 as a statement that says this is A Frank Statement to  
21 Cigarette Smokers? Would headlines have a great  
22 impact?

23 A.   They're supposed to get people to read it, but  
24 there's no informational content there.

25 Q.   If a headline has informational content, does it

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1 have a tendency to have a greater impact than  
2 something that appears down in the middle or the end  
3 of an article?

4 A. It would if there was a lot of information on  
5 it, yes.

6 Q. Take a look at, again, the second page, about  
7 two thirds of the way down, there's a section called  
8 "Headlines." Do you see that?

9 A. Yes.

10 Q. It reads, these, referring to headlines, should  
11 be carefully written on the premise that doctors and  
12 scientists, like other readers, grab information from  
13 the headlines and nothing more. Thus, the headlines  
14 should strongly call out the point -- controversy,  
15 contradiction, other factors, unknown. Do you see  
16 that?

17 A. Yes, I do.

18 Q. To the extent that those kinds of headlines were  
19 used in an effort to cast doubt on the  
20 cause-and-effect theory of disease and smoking, what  
21 effect would that have on the public's risk  
22 perceptions?

23 A. I think mostly these exclamation-point-type  
24 headlines are attention grabbers to get people to  
25 read the substance, and people like to read about

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1 controversies, contradictions, new information so  
2 this would increase the incentive of people to pay  
3 attention to it.

4 Q. And read about --

5 A. Whatever it is that they're telling them.

6 Q. Which would cast doubt on the cause-and-effect  
7 theory; right?

8 A. Right, it was to call attention to whatever it  
9 is they're disseminating.

10 Q. In terms of the dissemination of information  
11 about risks, if the goal of this document was to cast  
12 doubt, would you regard that as a proper motive?

13 A. It depends on what the context is. So if you're  
14 in a situation where it's not a balanced information  
15 situation originally, then you want to present the  
16 other side.

17 Q. If your goal is to present the other side that's  
18 one thing; right? If your goal is to cast doubt,  
19 regardless of whether the balance is struck, that's  
20 not a proper motive, is it?

21 A. It is if the other side is not always accurate  
22 and you want to present the other side of the  
23 argument.

24 Q. Without characterizing the presentation as  
25 presenting the other side, if your stated goal is to

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1 cast doubt on an important public health issue,  
2 that's not a proper motive, is it?

3 A. No they're casting doubt on a line of research  
4 if there are other studies that disagree, just in an  
5 effort to provide a balanced perspective.

6 (Recess taken from 10:43 to 10:50 a.m.)

7 BY MR. SILBERFELD:

8 Q. Let me show you Exhibit 144 which has been  
9 previously marked.

10 (Discussion off the record.)

11 Q. This document, Mr. Viscusi, is from a member of  
12 the research department, Dr. Wakeham, to the CEO of  
13 Philip Morris, Mr. Cullman, at this time.

14 I'd like to direct your attention to paragraph 2  
15 about two thirds of the way down on the first page.  
16 Do you see that, sir?

17 A. Yes.

18 Q. It says, "It has been stated that the CTR" --  
19 You know what the CTR is, don't you?

20 A. No.

21 Q. Council for Tobacco Research?

22 A. Oh, I guess I do know.

23 Q. Okay. "...that CTR is a program to find out 'the  
24 truth about smoking and health.' What is truth to  
25 one is false to another. CTR and the Industry have

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1 publicly and frequently denied what others find as  
2 'truth.' Let's face it. We are interested in  
3 evidence which we believe denies the allegation that  
4 cigarette smoking causes disease." Do you see that?  
5 A. I do.

6 Q. If Philip Morris in 1970 had publicly  
7 acknowledged, in the person of Dr. Wakeham, this  
8 belief, do you believe that that would have affected  
9 the public's perception about what had gone before in  
10 terms of the controversy between the industry on the  
11 one hand and certain scientists on the other, --

12 MR. ATKESON: When you're asking  
13 "perception," you're not talking about risk  
14 perception, you mean just perception of the  
15 industry?

16 MR. SILBERFELD: Actually I hadn't finished  
17 and I was about to go to the risk perception.

18 MR. ATKESON: I'm sorry, I apologize.

19 MR. SILBERFELD: Let me restate it just to  
20 make a clean record.

21 Q. If Philip Morris in 1970 in the person of Dr.  
22 Wakeham had called a press conference and said  
23 publicly what is said in this internal memorandum, do  
24 you believe that that disclosure, had it been made,  
25 would have affected the public's risk perceptions

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1 about smoking based upon what had gone before, which  
2 is on the one hand the cigarette industry saying  
3 there's a controversy and some people saying there's  
4 a cause-and-effect relationship?

5 A. This statement was made over a decade after the  
6 CTR establishment. During that time there was  
7 substantial research published indicating risks  
8 associated with smoking. The question is, is there a  
9 body of evidence on the other side?

10 What this memo's pointing out is that from a  
11 scientific standpoint it's almost impossible to prove  
12 a negative so that I think what they're saying here  
13 is that they're in a very unbalanced situation from  
14 an advocacy standpoint because it's hard  
15 scientifically to prove a negative. So I don't take  
16 away from it as adverse an inference as you're  
17 making.

18 Q. I make no inference about it at all. I'm just  
19 asking this question: Without characterizing  
20 anything about this, if Dr. Wakeham or Mr. Cullman or  
21 the both of them had called a press conference on  
22 December 8, 1970 and said what it says here, that  
23 we're interested in evidence which denies the  
24 allegation that cigarette smoking causes disease,  
25 would that public disclosure have had any effect

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1 whatsoever, in your mind, on the public's perception  
2 about the risks of smoking?

3 A. No.

4 Q. Why?

5 A. Because this is 1970. This is 17 years after  
6 the original statement. There have been 17 years of  
7 medical research indicating potential risks, and what  
8 they're saying here is that it's difficult to do a  
9 study in any area on any topic and prove a negative.  
10 It's just impossible to do. That's not a hypothesis  
11 test. So that it's going to be hard to find the  
12 evidence on the other side even if it exists -- even  
13 if the evidence exists, it's going to be very  
14 difficult to find.

15 Q. Is it fair to characterize this statement as a  
16 statement of motive?

17 A. Well this is one researcher. This isn't CTR.

18 Q. No. I'm talking about Dr. Wakeham. Is this a  
19 statement of Dr. Wakeham's motive, that is, we are  
20 interested in evidence which we believe denies the  
21 allegation?

22 A. There's lots of bad news out there for the  
23 companies, the nature of scientific inquiry is such  
24 that you can't prove a negative. There's a bias in  
25 terms of the character of the news that comes out.

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1 All he's saying is that because you can't prove a  
2 negative and the bias is inherently going to be in  
3 favor of the positives being picked up by the  
4 scientific literature, that they're trying to address  
5 the other side of the argument.

6 Q. Did you understand my question?

7 A. I thought I was responsive.

8 Q. Is it a statement of motive, yes or no?

9 A. I don't view this as a motive. This is not like  
10 why did you kill your wife. I don't know what's  
11 going through his head.

12 Q. It's not a statement of motive as to what  
13 they're interested in in the smoking debate; right?

14 A. That's not a statement of motive as I interpret  
15 it as an economist. Now I'm not making legal  
16 judgements as to what you mean by "motive."

17 MR. SILBERFELD: Let me mark as next in  
18 order a three-page document bearing Bates number  
19 500518873, 74 and 75.

20 (Plaintiffs' Exhibit 3815 marked for  
21 identification.)

22 BY MR. SILBERFELD:

23 Q. 3815, Mr. Viscusi, is a press release from the  
24 Tobacco Industry Research Committee dated 1960. Do  
25 you see that?

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1 A. Yes.

2 Q. It is a statement from a Dr. Little, the  
3 scientific director of the Tobacco Industry Research  
4 Committee. Do you see that?

5 A. Yes.

6 Q. And about middle of the page it says, "He  
7 observed that no one really knows what part, if any,  
8 smoking plays in causing lung cancer, but new  
9 evidence tends to throw doubt on, rather than  
10 support, the charges against smoking as a major  
11 causitive factor in this disease.'" Do you see that?

12 A. I do.

13 Q. Based upon what you understand the literature to  
14 be as of 1960, do you regard this as a truthful  
15 statement?

16 A. I don't know what the literature was in 1960.

17 Q. If this statement was made public as a press  
18 release and picked up by news media, either the print  
19 media or television or radio, and disseminated to the  
20 American people in 1960, would this information have  
21 a tendency to confuse risk perceptions made by the  
22 American public as of that time?

23 A. First of all you're conditioning it upon if it's  
24 picked up, and this is the kind of information that  
25 tends to be underplayed so --

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1 Q. I'm asking you to assume that it is picked up.

2 A. No, but the reason why I'm pointing this out is  
3 that to the extent that negatives like this tend to  
4 get underplayed in the literature, they tend to get  
5 underplayed in the media, this would not tend to be  
6 picked up. And also it would not tend to confuse  
7 because finally you're getting out there information  
8 regarding other scientific studies which presumably  
9 are valid. That's why he's talking about new  
10 evidence. You'd want to play these studies up and  
11 give them attention, not just the studies indicating  
12 the opposite result.

13 Q. Assume for purposes of my question that this  
14 press release was disseminated and picked up by wire  
15 services, newspapers, television and radio. Assume  
16 further that it was read or listened to by some  
17 segment of the American people. If read or heard,  
18 would this statement have a tendency to confuse or  
19 elucidate an American consumer about the risk  
20 perceptions of smoking?

21 A. My third assumption is going to be that there is  
22 in fact new evidence and providing information  
23 regarding the entire set of scientific evidence based  
24 on the state of information at that time would better  
25 inform people.

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1 Q. So in fact it would not cause confusion?

2 A. Not based on the state of information at the  
3 time if in fact there is new evidence, which is what  
4 is stated here.

5 MR. ATKESON: Can we go off the record for  
6 just one quick second?

7 MR. SILBERFELD: Sure.

8 (Discussion off the record.)

9 MR. SILBERFELD: Let me mark as next in  
10 order a document entitled, "RADIO BROADCAST  
11 TRANSCRIPT." It bears Bates number 500062010 to  
12 2018.

13 (Plaintiffs' Exhibit 3816 marked for  
14 identification.)

15 BY MR. SILBERFELD:

16 Q. This document dated 1962, Mr. Viscusi, is a  
17 Radio Broadcast Transcript, and the guest is George  
18 Allen, president of the Tobacco Institute. Do you  
19 see that?

20 A. I do.

21 Q. On the second page, in response to the question  
22 does the institute or anybody in the industry feel  
23 that a case has been established that smoking is  
24 connected with lung cancer, Allen answers: "No, the  
25 industry -- and you say anybody in the industry -- as

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1 far as I have heard anybody express himself, it is  
2 that the matter needs thorough and energetic  
3 scientific investigation. All the medical  
4 authorities as far as I know, or practically all of  
5 them, agree that nobody knows what causes cancer, and  
6 specifically lung cancer, and this is a matter that  
7 remains to be found by thorough and energetic  
8 scientific investigation." Do you see that?

9 A. I do.

10 Q. Do you believe that the statement that there is  
11 no connection between smoking and lung cancer as of  
12 1962 would have a tendency and reason to affect  
13 people's risk perceptions about cigarettes?

14 MR. ATKESON: Let me object and say that's  
15 not what's said here.

16 Q. Go ahead.

17 A. What George Allen is saying is that the  
18 relationship has not been nailed down with  
19 precision. To the extent that you're even having  
20 this debate would make more salient in people's minds  
21 the fact that there is this lung cancer literature  
22 which would tend to call people's attention to the  
23 risk.

24 Q. So this is a useful statement in alerting people  
25 that smoking is connected to lung cancer. Is that

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1 what you're saying?

2 A. People who did not know about the literature  
3 would know that, yes, there are studies out there  
4 that indicate a lung cancer risk, but nothing's been  
5 nailed down with precision. This is, after all,  
6 1962.

7 Q. What's the significance of the date to you?

8 A. You can't apply the scientific information  
9 standards of today to what should have been known 35  
10 years ago, so our scientific knowledge was evolving  
11 then. It's still evolving with respect to some risks  
12 of smoking, as we discussed earlier.

13 (Discussion off the record.)

14 Q. As of the year 1968, based upon your  
15 understanding of the general and technical literature  
16 regarding cigarettes and smoking disease, do you  
17 believe that the debate about whether smoking causes  
18 health effects had really only begun as of that year?

19 A. 1968?

20 Q. Yes.

21 A. No, because we have cited here in the document  
22 you just gave me that three years previous to 1962,  
23 which would seem to make it 1959, the surgeon general  
24 issued a report in which he stated that the evidence  
25 was that smoking was a chief cause or primary cause

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1 of lung cancer. So this is a decade before the  
2 period you're talking about.

3 Q. So that a statement that the debate had only  
4 begun would not be a correct statement --

5 A. No, it still continue --

6 Q. -- as of 1968.

7 A. The debate over some smoking risks are still  
8 continuing. Depends on the risk.

9 Q. Not the question.

10 As of 1968, if someone said the debate had only  
11 begun in '68, that would not be a truthful statement,  
12 would it?

13 A. With the implication being that it was unanimous  
14 until 1968, no, because it was not unanimous until  
15 1968 because the tobacco industry itself said in 1953  
16 it's not unanimous in their ad.

17 Q. And the debate had begun in 1953 or '54.

18 A. I'm not sure when the debate began.

19 Q. Well it sure began before 1968, didn't it?

20 A. Yes, it did.

21 Q. Well before.

22 A. There was a debate before.

23 Q. Let me show you a document which we'll mark as  
24 next in order, Bates number 502644592 to 4616.

25 (Plaintiffs' Exhibit 3817 marked for

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1 identification.)

2 (Discussion off the record.)

3 BY MR. SILBERFELD:

4 Q. Exhibit 3817 is a tobacco industry publication  
5 called, "THE CIGARETTE CONTROVERSY." It bears the  
6 date of April 23rd, 1968. Do you see that?

7 A. Yes.

8 Q. Turn to the third page of the document if you  
9 would. At the top of the page it says, "Do  
10 cigarettes cause disease?" Do you see that?

11 A. Yes.

12 Q. And the answer that's given is: "This is the  
13 central question in a continuing cigarette  
14 controversy that concerns millions of Americans. The  
15 debate has not been closed; it has really only  
16 begun." You see that?

17 A. Yes.

18 Q. That's not a truthful statement, is it?

19 A. These are exhortatory fighting words I think,  
20 and they indicate --

21 Q. Counsel is showing you something. What's he  
22 showing you?

23 A. A subsequent page of the document indicating  
24 that "the controversy has raged since the early  
25 1950s," according to the same document on page 3.

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1 Q. Okay. Is this statement a truthful statement?

2 A. Yes, it acknowledges that a debate existed  
3 before that is not yet over. When they say it is  
4 really just only begun, this is like a pep talk.

5 Q. Where do you get the information that this is a  
6 pep talk?

7 A. "It has really only begun," this is like this  
8 document's going to really get this debate going,  
9 this is a -- an exhortatory statement.

10 Q. It's not a statement of fact.

11 A. It indicates that there was a debate, the  
12 debate's not over, but we're going to give you  
13 information that will foster more debate.

14 Q. Do you believe that you can establish causation  
15 by statistical association?

16 MR. ATKESON: Are you asking him from a  
17 medical standpoint or as an economist?

18 MR. SILBERFELD: Statistical standpoint.

19 A. Depends on what you control for.

20 Q. Can it be done if you control properly?

21 A. If you control for everything and the only thing  
22 that is not controlled for is one particular  
23 variable, then you've got a statistical  
24 relationship. Whether it causes it or not seems to  
25 be unimportant for me as an economist provided that

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1 whenever you turn that variable on you get the bad  
2 effect, whenever you turn the variable off the bad  
3 effect goes away.

4 Q. Would you say that it was not possible to make  
5 associations by the use of statistics?

6 A. Well simple correlations don't tell you anything  
7 so, for example, smokers are more likely to be  
8 injured on the job but that's not because smoking  
9 does that to them, that happens to be because they're  
10 different kinds of people.

11 Q. By the year 1973, five years after the document  
12 we're looking at, do you believe that the  
13 relationship between smoking and health was still  
14 very much a controversy, based on your understanding?

15 A. I think it's still a controversy.

16 Q. Very much a controversy?

17 A. Yes. There's a big debate over the extent of  
18 the heart disease and lung cancer risk associated  
19 with environmental tobacco smoke. That's nowhere  
20 near being resolved in terms of the magnitude of the  
21 risk. The mortality risk estimates, even from the  
22 surgeon general, the low and high end differ by a  
23 factor of two. If this is not a controversy, I don't  
24 know what is. It's not like we've pointed any of  
25 these answers.

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1 Q. Is there any doubt in your mind as you sit here  
2 today that some number of people die from smoking?

3 A. No.

4 Q. No doubt.

5 A. No doubt whatsoever.

6 Q. The doubt is how many; right?

7 A. Yes.

8 Q. The doubt is what proportion of smokers die from  
9 smoking; right?

10 A. That's correct.

11 Q. But as to whether a single person has ever died  
12 of smoking illnesses, there's no doubt about that, is  
13 there?

14 A. I don't have doubt as of 1997, no.

15 Q. How about 1987, as to whether a single person  
16 ever died.

17 A. I didn't doubt it then either.

18 Q. '77?

19 A. I didn't doubt it. I'm not sure if other people  
20 did, but I didn't doubt it.

21 Q. '67?

22 A. No, I knew smoking was bad for your health even  
23 before 1964.

24 MR. SILBERFELD: Let me mark as next in  
25 order a document which is a transcript of a "60

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1 Minutes" program in 1973, bears Bates number  
2 503665743 through 5757.

3 (Plaintiffs' Exhibit 3818 marked for  
4 identification.)

5 BY MR. SILBERFELD:

6 Q. Exhibit 3818, Mr. Viscusi, is a "60 Minutes"  
7 transcript interview between Mike Wallace and James  
8 C. Bowling who at the time, I'll represent to you,  
9 was the president of Philip Morris. Okay?

10 A. This is what they put on the air and not the  
11 transcript of the full interview, or is this the full  
12 interview?

13 Q. I'm not sure. Does it matter?

14 A. It may matter in terms of what's edited out, so  
15 I don't know if I'm missing something.

16 Q. Well let me ask you first of all whether in and  
17 as of 1973 CBS's "60 Minutes" was a widely watched  
18 television show.

19 A. That's correct.

20 Q. And therefore to the extent it had subjects  
21 covered on the program, it would have a tendency to  
22 impact people's perceptions, generally?

23 A. Depends on the content.

24 Q. Without getting into the content for a moment,  
25 do you think that a program about smoking in 1973 on

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1 "60 Minutes" would have a tendency and a reason to  
2 affect people's perceptions about smoking and risk?

3 A. Once again, depends on what they say.

4 Q. Take a look at the third page. There's a  
5 question there or a statement by Wallace that says,  
6 "there are rules full" -- probably rooms full -- "of  
7 medical publications and reports and statistical  
8 analyses and clinical studies, all of which, all of  
9 which, say essentially the same thing, that  
10 cigarettes are linked to cancer, emphysema, heart  
11 disease and so forth. True?"

12 And Bowling's response is, There are studies  
13 that certainly seem to indicate that there is enough  
14 basis to cause more research to be done. The puzzle  
15 to me is why there are those who would cut off the  
16 research. We say do the research. We want to know  
17 the answers." I shouldn't think everyone would want  
18 to know the answers -- "I should think" -- rather,  
19 "everyone would want to know the answers and it  
20 doesn't seem to me to serve a scientific cause to act  
21 as if the case is proven when it is still very much a  
22 controversy."

23 As of 1973, was there any doubt in the public  
24 and technical literature that cigarettes were linked  
25 to cancer, emphysema and heart disease?

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1 A. There is later on this page. They have Lancet  
2 magazine, which is a respected medical journal, has  
3 30 scientists writing in on it, so there seems to be  
4 some controversy.

5 Q. Well that answer that you're giving me has  
6 nothing to do with my question, sir. It's whether as  
7 of 1973 the link between cigarettes and cancer,  
8 emphysema and heart disease was something about which  
9 there was very much a controversy. Are you saying it  
10 was?

11 A. Oh, I think people generally had a subjective  
12 belief that there was a link, but it seems that there  
13 remained some controversy in the scientific  
14 literature over how precisely it had been nailed  
15 down, which seems to be what these articles are  
16 referring to.

17 Q. "These articles" meaning the Lancet letters to  
18 the editor?

19 A. That's correct.

20 Q. That talk about other research.

21 A. That's correct.

22 Q. Not the research having to do with the link  
23 between cancer and emphysema and heart disease and  
24 smoking.

25 A. It seems to me that's what this other research

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1 pertains to.

2 Q. To the extent people in 1973 watched  
3 "60 Minutes" and heard these words from Mr. Bowling,  
4 do you have a belief as to whether or not that would  
5 affect their risk perceptions about smoking in any  
6 particular direction?

7 A. I don't see where it would affect anything. I'm  
8 not also sure that this segment of the interview ever  
9 aired, because it looks like this is a transcript of  
10 the whole interview, so -- they say "Recording  
11 equipment turned off" on page 14, and generally TV  
12 shows don't air the entire interview, they air only  
13 edited segments. But assuming they did air it, I  
14 don't see where this would cause any shift in  
15 people's risk beliefs.

16 Q. Would it tend to confuse them?

17 A. There are studies out there that the fact that  
18 the risks are imprecise doesn't confuse people. When  
19 risks are imprecise, they tend to gravitate to the  
20 worst-case scenario.

21 Q. Would it have a tendency to reaffirm a belief in  
22 people's minds that maybe, just maybe, smoking  
23 doesn't cause disease?

24 A. I think the -- highlighting the fact that there  
25 are lots of these medical publications that indicate

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1 a risk is going to be the dominant message that  
2 people take away from this, even if you are trying to  
3 say that they haven't nailed it down with precision.

4 MR. ATKESON: I just note that if you read  
5 the last paragraph of Mike Wallace's, here, it's  
6 clear that not all of this aired.

7 (Discussion off the record.)

8 MR. SILBERFELD: Let me mark as next in  
9 order a document that bears Bates numbers TIMN  
10 0084430 through 4434.

11 (Plaintiffs' Exhibit 3819 marked for  
12 identification.)

13 BY MR. SILBERFELD:

14 Q. This is a 1979 document, Mr. Viscusi, from the  
15 Tobacco Institute.

16 MR. ATKESON: Let me just note for the  
17 record that pages -- some pages are missing and pages  
18 are also out of order. The fourth page should  
19 actually be the third page.

20 MR. SILBERFELD: That's a copying problem.  
21 Sorry about that.

22 MR. ATKESON: No, no, no, I'm just -- for  
23 instance the first page of the preface follows the  
24 second page of the preface.

25 MR. SILBERFELD: That's a copying problem.

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1 Sorry about that.

2 BY MR. SILBERFELD:

3 Q. As of 1979, this document on page 1, the  
4 internal numbering of the document, do you have  
5 that? It says "Overview."

6 A. Yes.

7 Q. It says in the middle of the first paragraph,  
8 "Despite millions of dollars spent since that time,  
9 -- referring to the prior period -- "both by the  
10 government and the tobacco industry on smoking and  
11 health-related research, many questions about the  
12 relationship between smoking and disease remain  
13 unanswered." Do you see that?

14 A. Yes, I do.

15 Q. Assuming that this information was made public  
16 in 1979, would that statement have a tendency to  
17 affect people's risk perceptions about smoking?

18 A. I think it's still true today. Many questions  
19 are still unanswered.

20 Q. In the next paragraph he goes on to say,  
21 "Despite claims to the contrary, no one -- in  
22 government or industry -- can explain the reported  
23 associations of smoking with lung cancer, heart  
24 disease, emphysema, low infant birth weight, and yes,  
25 even cancer of the pancreas." Do you see that?

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1 A. Yes.

2 Q. Would that statement, if made public, have a  
3 tendency to affect people's risk perceptions about  
4 smoking and disease?

5 A. No, for two reasons. First, all they're saying  
6 is that people don't understand the linkages. To the  
7 extent that it is made public, presumably it would  
8 increase people's risk beliefs because they're noting  
9 that there are these associations with all of these  
10 ailments and maybe everybody had never heard of the  
11 link to the cancer of the pancreas. So --

12 Q. So that if a member of the public, for example,  
13 hadn't worried about pancreatic cancer before this  
14 time, hearing this would raise their risk perceptions  
15 because now that they've heard it, that's something  
16 to worry about. Is that what you're saying?

17 A. There's another reported association here and  
18 that could potentially be an additional thing they  
19 hadn't thought of. Now it may be that they already  
20 had overly high risk perceptions to begin with and  
21 that would just simply crank them up higher.

22 Q. As of 1979, based on your understanding of the  
23 publicly available and medical and scientific  
24 literature, had there been any cause-and-effect  
25 relationship established between cigarettes and

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1 disease?

2 A. I'm not a doctor and I haven't analyzed it from  
3 that standpoint. I know there's a correlation, and I  
4 think a reasonable person would assess that there's a  
5 risk based on the correlation, but the extent to  
6 which it's a cause-and-effect relationship is  
7 something that you'd want a medical expert to judge,  
8 based on the literature.

9 Q. To the extent that somebody had said as of 1979  
10 around the time that this was published, that  
11 scientists had not proven that cigarettes cause any  
12 human disease, would that be a reasonable statement  
13 to make?

14 A. Well they haven't proven a causal linkage. What  
15 they have shown is the correlation, so it may be an  
16 accurate statement. Once again that's a medical  
17 judgment, that's not an economic judgment.

18 Q. In terms of public statements, if you fail to  
19 include the information that a linkage has been  
20 reported by saying that no cause-and-effect  
21 relationship has been established, you're not making  
22 a completely truthful statement, are you?

23 A. They are stating the linkage. They're saying  
24 there is a reported association of smoking with lung  
25 cancer, heart disease, et cetera, et cetera, et

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1 cetera.

2 Q. Take a look at the next page. At the top of the  
3 page there is a statement, if we're on the same page,  
4 that reads, "scientists have not proven." Do you see  
5 that?

6 A. That's correct.

7 Q. "Scientists have not proven that cigarette smoke  
8 or any of the thousands of its constituents as found  
9 in cigarette smoke cause human disease." You see  
10 that?

11 A. I do.

12 Q. Do you regard that as a statement capable of  
13 affecting a public member's perceptions about risks,  
14 if it was publicized?

15 A. Once again, it's the issue of whether  
16 correlation and causality are the same thing, but it  
17 also goes back to what I said this morning, which is  
18 that statements that promote the interests of the  
19 tobacco industry, made on behalf of the tobacco  
20 industry, will not lower people's risk perceptions  
21 because people do not perceive a cost to the tobacco  
22 industry of making those claims. So this is not  
23 going to be a credible piece of information, if it  
24 would be viewed favorably by people, because there's  
25 no reason for them to think that it's true. There

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1 are no costs to making this statement.

2 Q. So people hearing this would not be affected by  
3 it because it's likely the same as saying my  
4 dishwasher's better than somebody else's dishwasher.

5 A. If they regard the information as favorable,  
6 they would ignore it for that reason. If they regard  
7 it as unfavorable, it might increase their risk  
8 perceptions.

9 Q. By 1990, do you believe that smoking was at  
10 least one of the causes of the chronic diseases that  
11 had been associated with it?

12 A. Once again, I don't know what the status of the  
13 medical literature was with respect to causation as  
14 opposed to correlations. I did believe myself that  
15 as of 1990 smoking increased the risk of certain  
16 things in an adverse nature.

17 Q. And that as of 1990 it was at least one of the  
18 causes of emphysema, heart disease or lung cancer?  
19 Not the only cause, but one of them?

20 A. If by that you mean that it increased the  
21 probability of those adverse events, yes, but I don't  
22 know whether that's the same thing as being a cause,  
23 because I don't know the extent to which they've  
24 identified causal mechanisms.

25 MR. SILBERFELD: Let me mark as next in

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1 order a two-page document, bears Bates numbers  
2 507706398 and 6399.

3 (Plaintiffs' Exhibit 3820 marked for  
4 identification.)

5 BY MR. SILBERFELD:

6 Q. This is a letter from the manager of public  
7 information, public relations department, R.J.  
8 Reynolds Tobacco Company, to an individual named  
9 Bergsteuer in Northridge, California, apparently in  
10 response to a letter from that individual about  
11 advertising.

12 Let me direct your attention to the last  
13 paragraph on the first page. "Despite all the  
14 research going on, the simple and unfortunate fact is  
15 that scientists do not know the cause or causes of  
16 the chronic diseases reported to be associated with  
17 smoking." Do you see that?

18 A. Yes.

19 Q. That wasn't a true statement in 1990, was it?

20 A. I don't know what the state of scientific  
21 knowledge was regarding causation. As I've indicated  
22 before, I did believe that people who smoked had a  
23 significantly higher probability of a chronic  
24 disease, but that's not the same thing as identifying  
25 a causal mechanism. That's a medical issue. That's

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1 not my game.

2 Q. Well in writing to a consumer, in order to be  
3 truthful and complete you would recommend, wouldn't  
4 you, that at a minimum the tobacco company in this  
5 case state that while there is no cause-and-effect  
6 relationship, a statistical association has been  
7 shown or there's a linkage?

8 A. 1990 you've got surgeon general's warnings, you  
9 don't have to augment that. Basically this is  
10 somebody writing and complaining about the Joe Camel  
11 campaign. My hunch is that they're not writing to a  
12 smoker anyway.

13 Q. Would the statement that "scientists don't know  
14 the cause or causes of chronic diseases reported to  
15 be associated with smoking" have a tendency and  
16 reason to affect this person's risk perceptions about  
17 smoking?

18 A. I don't see why it should.

19 Q. No affect.

20 A. No affect.

21 Q. Because?

22 A. The information's already out there through the  
23 hazard warnings, and con -- and consumers have no  
24 incentive to process favorable information if  
25 provided costlessly by a company. In this case the

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1 person providing the information is a woman in the  
2 public relations department of the cigarette  
3 company. There are no costs to her of any statement  
4 she makes.

5 Q. And by "cost to her" what you mean is she could  
6 lie and it wouldn't cost her anything.

7 A. That's correct. There's not a guarantee or a  
8 warranty type relationship here.

9 Q. And so there's no incentive, because of the  
10 absence of cost, for this person writing this letter  
11 to tell the truth.

12 A. The consumer will perceive that there's no  
13 incentive for the person to tell the truth, and  
14 because of that the consumer will not place any  
15 credibility on this claim any more than a claim if a  
16 Whirlpool manufacturer wrote to a consumer and said  
17 our dishwashers really are the best. There's no  
18 reason to place any weight on that claim.

19 Q. Is there any incentive for the public relations  
20 representative in the last example we've been talking  
21 about, to tell the truth?

22 A. There might be private incentives from the  
23 standpoint of the company, but in general even if  
24 it's a company there are not substantial costs  
25 associated with these statements irrespective of

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1 whether they're true, in the same manner as there  
2 would be with guarantees or warranties. So if, for  
3 example, somebody from R.J. Reynolds wrote and said  
4 "cigarettes unfortunately cause flat feet," which we  
5 know is not true, there'd be no sanctions. There's  
6 no cost really to that so that there's no reason to  
7 believe such statements. Quality claims about  
8 products generally are not viewed as effective in the  
9 economics literature.

10 Q. So there's no reason for the recipient of this  
11 letter to have believed what he was told; right?

12 A. I don't think --

13 Q. Because there's no cost associated with it.

14 A. I don't think the recipient placed a lot of  
15 weight on this letter from the PR person in a firm.  
16 This is, you know, you're -- you're obliged to  
17 respond to the people that write in, you crank out a  
18 letter back. This is not something that people at  
19 the receiving end view as a major event in their  
20 lives in terms of how they think about a particular  
21 product.

22 Q. If the same point of view as expressed in this  
23 letter was expressed by the chairman of RJR, would  
24 you have the same point of view?

25 A. Yes.

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1 Q. So even if the chairman had written this letter  
2 to this individual there would be no reason for this  
3 individual who received the letter to place any stock  
4 in it or believe it in any respect because there's no  
5 cost associated with lying.

6 A. And what did they say? All they said is that  
7 the cause is not nailed down. There's research going  
8 on. I don't see where there's any real information  
9 here.

10 Q. So it's useless.

11 A. I don't regard it as useful. I don't think a  
12 scientific committee could take this and formulate a  
13 risk assessment based on this.

14 Q. So if the chairman of RJR in about the same time  
15 frame had said fundamentally the same thing, you  
16 would analyze his behavior the same way, that is to  
17 say, there's no cost associated with lying, so he  
18 might well lie.

19 A. Well, and the statement itself is pretty vacuous  
20 so I don't see this as being a strong statement one  
21 way or the other.

22 Q. Have you seen anywhere -- Well, let me back up.

23 The documents I've shown you up to now, today's  
24 the first time you've ever seen these documents.

25 Isn't that true?

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- 1 A. I've seen the Frank Statement before.
- 2 Q. Other than the Frank Statement.
- 3 A. Yes.
- 4 Q. Have you seen any documents from any tobacco
- 5 company that relate to what they knew about whether
- 6 nicotine or cigarettes were addictive?
- 7 A. No.
- 8 Q. Have you read any reports that discuss the fact
- 9 that certain cigarette companies knew nicotine was
- 10 addictive?
- 11 A. Just your complaint in the case or whatever it's
- 12 called, your charge.
- 13 Q. Umm-hmm.
- 14 A. And newspaper articles, and that's it.
- 15 Q. Have you ever tested in any of your risk
- 16 assessment work on smoking, whether people have a
- 17 belief, the public does, about whether nicotine or
- 18 cigarette smoking is addictive?
- 19 A. I've not.
- 20 Q. Do you know anybody who has?
- 21 A. No.
- 22 Q. Do you know of any literature that has tried to
- 23 assess that question?
- 24 A. I know people have explored it. I'm not sure
- 25 whether that's how I'd even phrase it from an

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1 interview standpoint, whether I'd even want to  
2 approach it that way.

3 Q. How would you phrase the question?

4 A. "Do you know smoking's hard to quit?"

5 Q. Why wouldn't you ask the question "do you know  
6 if smoking is addictive?"

7 A. Then you get into a debate over, well, I don't  
8 think it's addictive, I think it's habituated. What  
9 do I mean by that? And people don't understand  
10 specific medical terminology that has a well defined  
11 meaning to the medical community but does not have as  
12 well defined a meaning to the public at large.

13 Q. Wouldn't you have the same problem with the  
14 question that you posed; that is, "what do you mean  
15 by hard to quit?"

16 A. "Hard to quit" is easier to understand than  
17 "addiction," which carries along with it more excess  
18 baggage in terms of what it means and why that's  
19 different than habituation. I think I'd be hard  
20 pressed to find many people who could tell me the  
21 difference between addiction and habituation.

22 Q. Do you know the difference?

23 A. The difference as I understand it is that  
24 addiction involves physiological effects as opposed  
25 to just liking something.

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- 1 Q. Or psychological effects.
- 2 A. Or psychological effects.
- 3 Q. Do you regard the use of heroin as being an
- 4 addiction?
- 5 A. That's what I've been told, but I have no
- 6 independent knowledge of that.
- 7 Q. How about the use of cocaine?
- 8 A. Once again I think in the popular press that
- 9 cocaine has been classified as addictive.
- 10 Q. How about alcohol?
- 11 A. People have called alcohol an addictive drug. I
- 12 think that's a mistake in terms of how you would want
- 13 people to think about alcohol, but yes, it's been
- 14 classified as an addictive drug.
- 15 Q. Do you accept as true in your own assessment of
- 16 these things that cocaine and heroin are addictive?
- 17 A. Yes.
- 18 Q. You disagree about alcohol?
- 19 A. No, I don't disagree with how the medical
- 20 community chooses to label it.
- 21 Q. Okay.
- 22 A. I just think society's interests are not well
- 23 served by placing alcohol in the same category as
- 24 heroin.
- 25 Q. Why is that?

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1 A. Well, when high school and college students are  
2 thinking of what they're going to do this weekend for  
3 party night on Friday night or Saturday night, I'd  
4 prefer them to be having a beer rather than thinking  
5 they could substitute heroin as an equally risky  
6 product.

7 Q. And you think the use of the word "addiction"  
8 connotes something about the risk of the activity?

9 A. It places it in the same category as heroin, so  
10 calling something an addictive drug immediately  
11 raises specters of heroin and cocaine.

12 Q. And there are obviously health effects  
13 associated with those two products.

14 A. Well people can't function in a normal way,  
15 typically, if they're addicted to those drugs.

16 Q. In order to give people accurate risk  
17 perceptions about smoking, wouldn't it benefit the  
18 cause of lowering the incidence and thereby lowering  
19 the incidence of disease, to call cigarette smoking  
20 an addiction?

21 A. My goal is not to benefit the cause of lowering  
22 disease, my goal is to benefit the cause of promoting  
23 consumers' welfare based on the truth. That may  
24 involve less smoking, it might not.

25 The danger of calling cigarettes addictive, and

1 I realize that there will probably be warnings on  
2 cigarettes in a year or so that do that, is that you  
3 place smoking in the same classification as heroin  
4 and cocaine so that it may dilute our efforts to  
5 combat these other products.

6 Q. But calling it addictive may well have a  
7 salutary effect of reducing the amount of smoking and  
8 thereby inferentially, indirectly later on reducing  
9 the amount of disease from smoking; right?

10 A. I don't think how people will process the word  
11 addictive, but if it -- but if it misleads them into  
12 thinking that smoking is as bad as heroin in some  
13 sense then I don't think that that's a good thing.

14 Q. Well is it as bad as heroin, smoking?

15 A. I would rather have a coworker or a doctor  
16 operating on me who's a cigarette smoker than who is  
17 a heroin addict. I don't think there's any question  
18 whatsoever.

19 Q. In terms of the lifetime risks in your personal  
20 life, would you make a choice between the two?

21 A. I don't know what the lifetime risks are. I do  
22 know that if you're a heroin addict you're not going  
23 to be as functioning a member of society as you will  
24 be if you're a cigarette smoker. You're less at risk  
25 from being killed on the street by a cigarette smoker

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1 than you would be by a crack addict, for example.  
2 Cigarette smokers don't rob you to get money to  
3 support their habit.

4 Q. You're talking about the societal effects. What  
5 about the personal effect on the individual? Are  
6 they at least as severe for cigarette smoking as they  
7 are for heroin or cocaine?

8 A. No, because heroin and cocaine make you stop  
9 being a functioning, productive member of society,  
10 smoking does not.

11 Q. I'm talking about in terms of disease.

12 A. I don't know what the disease implications of  
13 heroin are, but the fact that you're even high on  
14 heroin has harmful morbidity consequences in terms of  
15 you being able to function in a healthy manner, so  
16 simply using the product will affect your ability to  
17 act as a normal, healthy human being.

18 Q. Do you have a sense from your smoking research  
19 as to what the American public's view is about  
20 whether cigarettes are either habit forming or  
21 dependence producing or addictive?

22 A. I haven't done separate survey work on the class  
23 of issues you refer to.

24 Q. Do you have an impression based on that work?

25 A. I haven't done the work, so I haven't done work

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1 on quitting in terms of explicit survey questions. I  
2 have thoughts that I've written up but --  
3 Q. Well you have an impression certainly that  
4 cigarette smoking is hard to quit.  
5 A. Certainly. I think that's well known.  
6 Q. And what's the basis of that?  
7 A. Common knowledge. This is public knowledge.  
8 This is why we have Smoke Enders. Everybody knows  
9 smoking's hard to quit. I mean, this is not a state  
10 secret.  
11 Q. Do you have an impression as to whether people  
12 overassess, underassess or assess just right how hard  
13 it is to quit smoking?  
14 A. No. I don't have that kind of pinpoint evidence  
15 on this topic.  
16 Q. To the extent there's a controversy about  
17 whether or not smoking is addictive, dependence  
18 producing or habit forming, do you believe that what  
19 the companies know over time about that subject, or  
20 what they believe, would be useful to the public in  
21 making its own judgements about whether smoking is  
22 habit forming, dependence producing or addictive?  
23 A. No, I think this is a very specialized debate  
24 that's primarily of interest to the medical community  
25 and the specialists in the field. From the

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1 standpoint of the public, all they need to know and  
2 what they do know is that quitting smoking is hard to  
3 do, and how you change the label of this over time  
4 really is not that important to that basic fact. Now  
5 if you mislabel smoking in a way that makes them  
6 think smoking is like heroin that could have  
7 detrimental consequences, in part for our other  
8 programs, antidrug programs.

9 Q. From a societal standpoint wouldn't you want to  
10 just leave it to the public to decide what's good or  
11 bad for them? That's your view, isn't it?

12 A. I let people themselves choose, once we've  
13 informed them.

14 Q. Yeah. You want to give them all the  
15 information, let them make the decision; right?

16 A. Yes, but it has to be operational information.  
17 If the public could comprehend technical information  
18 we'd mail them all articles from New England Journal  
19 of Medicine and tell them to figure it out. In the  
20 same way, they don't understand the nuances between  
21 addiction and habituation.

22 Q. So who's to decide what information is given to  
23 the public about the health -- not the health effects  
24 but the habituating effects, dependence-producing  
25 effects, addictive effects of cigarettes?

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1 A. Well the first thing you'd want to do before  
2 anybody would even think of doing this is to identify  
3 an information shortfall, and I can't think of any.  
4 Everybody knows that quitting smoking is hard to do.  
5 I don't see what the information gap is.

6 Q. What do the people of this country think is the  
7 reason that it's hard to quit?

8 A. Because you like cigarettes, you enjoy smoking  
9 it, and it's hard to give them up.

10 Q. Psychologically, socially or physiologically, or  
11 all of them?

12 A. I don't have any data on what everybody thinks  
13 so I'm not going to speculate on what's going through  
14 people's heads as to the mechanism. I just know that  
15 they know about the outcome.

16 Q. In assessing the meaning of the outcome, it  
17 would be important to know why cigarettes are hard to  
18 quit, wouldn't it?

19 A. Not to economists. We just care about the fact  
20 that they recognize that there's a cost to altering  
21 your behavior. Where this cost came from is not  
22 important.

23 Q. I wasn't talking about economists, I was talking  
24 about the public.

25 A. I'm talking about me. You're asking me what I

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1 think.

2 Q. Wouldn't it be useful to the public to know why  
3 it's hard to quit?

4 A. I don't think the public has to understand  
5 mechanisms so long as they understand costs to  
6 change.

7 Q. It would be important to know the mechanism of  
8 why smoking causes cancer; right?

9 A. No, it isn't. I don't really care.

10 Q. It's not important?

11 A. Not to me.

12 Q. Not to the public?

13 A. It may be important to the medical community,  
14 but to me it's not important. If smoking causes  
15 cancer, exactly why it causes cancer is not essential  
16 for me to know.

17 Q. If the tobacco companies have information about  
18 nicotine being addictive, would the public disclosure  
19 of that information over time have assisted the  
20 public in any way in assessing how hard it is to quit  
21 smoking?

22 A. Well since they already knew it's hard to quit,  
23 since simply labeling something addictive just  
24 reinforces what they already know, that doesn't shift  
25 their beliefs, and saying that mice kept on going

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1 back and drinking from the nicotine water or whatever  
2 it is they did doesn't enable the public to form any  
3 better judgment than they have already.

4 Q. Did the public's understanding about how hard it  
5 is to quit cigarettes go from knowing nothing to  
6 knowing everything in one step?

7 A. I think it's been common knowledge for years. I  
8 don't know when it ever began, just like "coffin  
9 nails," that expression's been used long before 1964.

10 Q. Referring to cigarettes.

11 A. Referring to cigarettes.

12 Q. Did the information about the addictive or  
13 dependence-producing properties of cigarettes evolve  
14 over time?

15 A. I know of no time when people did not know that  
16 smoking was hard to quit. I certainly know in the  
17 1950s that was well known. But I was not alive long  
18 enough before that to know what was common knowledge  
19 before the 1950s.

20 Q. To the extent that cigarette companies in a  
21 series of documents acknowledged that nicotine is  
22 addictive and that smoking is an addiction, do you  
23 believe that the release publicly of that type of  
24 information would be at all interesting to the  
25 public?

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1 A. Once again, it's not new information, the public  
2 already knows that smoking is hard to quit. This is  
3 information that is primarily of interest to a narrow  
4 group in the medical community that wants to know  
5 whether they want to classify it as an addiction or  
6 as an habituation, and that may be of professional  
7 interest but that's not going to be something the  
8 public at large cares about.

9 Q. How do you know they don't care?

10 A. They don't even know the meaning of those two  
11 terms, so making fine distinctions between them is  
12 not going to be something that they would care about.

13 Q. If there is a controversy in the 1960s that says  
14 on the one hand cigarette smoking is merely habit  
15 forming, like drinking coffee or Coca-Cola or eating  
16 chocolate, and on the other hand that it's addictive,  
17 powerfully so, wouldn't information that helps  
18 resolve that controversy be helpful to the American  
19 people?

20 A. As we've defined addiction for this deposition,  
21 Coca-Cola and coffee would also be addictive in that  
22 people do have physical effects from stopping the use  
23 of them, so that this is a fairly broad term, and I  
24 don't see where telling people that it's going to be  
25 in the same class as Coca-Cola would convey any

1 stronger information about it than they have already.

2 Q. Would it be helpful to the American people to  
3 know that nicotine causes central nervous system  
4 effects?

5 A. Which is to say it makes you jittery, to smoke,  
6 or maybe calms your nerves, either one. I don't  
7 think those are new things. Coffee makes people  
8 jittery, Coca-Cola makes me jittery. That's a  
9 central nervous system effect. So that's not a scary  
10 notion to me, at least in terms of medical  
11 information you could provide so --

12 Q. I wasn't suggesting it was either scary or  
13 comforting.

14 A. I'm not -- I don't see where that's a risk.  
15 That's just an effect of the product, and if it's not  
16 something adverse, why bother telling people?

17 Q. What if it's explanatory in terms of their  
18 continued smoking behavior, would that be useful for  
19 them to know?

20 A. I don't see why.

21 Q. It wouldn't be helpful to them to know at least  
22 one explanation for why they continue to smoke?

23 A. Well the reason you smoke is because your body  
24 likes it. You going to tell people that? I'm not  
25 sure exactly how you're going to couch this.

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1 Q. Tell them that nicotine has an effect in the  
2 brain that causes a physiological dependence. Would  
3 that be helpful?

4 A. No, I don't see where this is going to affect  
5 anything.

6 Q. And the reason is everybody knows it's hard to  
7 quit.

8 A. They know it's hard to quit and what the  
9 mechanism is is unimportant to the outcome.

10 (Luncheon recess taken at approximately  
11 11:58 p.m.)

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1 AFTERNOON SESSION

2 (Deposition reconvened at approximately  
3 1:03 p.m.)

4 BY MR. SILBERFELD:

5 Q. I'd like to mark as next in order a document  
6 bearing Bates number MNAT 00639587.

7 (Discussion off the record.)

8 Q. This is a press release from the Tobacco  
9 Institute in 1988. Do you see that?

10 A. Yes.

11 Q. And it bears the heading, "CLAIMS THAT  
12 CIGARETTES ARE ADDICTIVE CONTRADICT COMMON SENSE."  
13 You see that?

14 A. Yes.

15 Q. As of 1988, do you believe that to have been a  
16 truthful statement?

17 A. I believe that people can quit cigarettes, and  
18 to the extent that people think the word "addictive"  
19 means that they can't quit cigarettes, that would not  
20 be true, as they point out in this statement that  
21 smoking is a personal choice and you can stop if you  
22 choose to do so. I believe that statement.

23 Q. Does it contradict common sense to say  
24 cigarettes are addictive?

25 A. Yes, because it places cigarettes in the same

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1 category as heroin use, as they point out. And for  
2 the general public, when they're thinking of  
3 addiction, they're thinking of these hard drugs.

4 Q. As of 1988, was it true that smoking causes a  
5 physical dependence at some level?

6 A. I believe it is true. I'm not sure what the  
7 evidence was.

8 Q. Would you regard the statement in the  
9 second-to-the-last paragraph, "the claim that  
10 cigarette smoking causes physical dependence is  
11 simply an unproven attempt," to be a truthful  
12 statement?

13 A. It seems to me that they're trying to  
14 distinguish smoking from heroin and other products,  
15 so to say that you like cigarettes in much the same  
16 way as I like Coca-Cola, some people like coffee, is  
17 different than saying that you have a physical  
18 dependence in the same way that a heroin addict has.

19 Q. Is it a truthful statement?

20 A. The issue is not whether it's truthful, but  
21 whether it's unproven.

22 Q. Is the fact that they say it's unproven a  
23 truthful statement as of 1988?

24 A. I don't know what was proven in the medical  
25 literature.

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1 Q. If that was --

2 A. I did know that people themselves thought that  
3 quitting smoking was hard to do, and that's a  
4 physical thing.

5 Q. If that was a false statement as of 1988, that  
6 would have a tendency to mislead people who heard it  
7 or saw it. Isn't that true?

8 A. No, this is in the context of saying that  
9 smoking's not like drug addiction such as cocaine and  
10 heroin, and the physical dependence is not of that  
11 character.

12 Q. Assume for purposes of my question that it is  
13 addictive. Is the statement that it's not addictive  
14 likely to mislead the American public in its beliefs  
15 about whether or not smoking is addictive?

16 A. No, because to the extent that people view the  
17 label addictive as putting it in the same class as  
18 crack or heroin, I believe that that categorization  
19 does more to mislead the public than saying it does  
20 not belong in that same category.

21 Q. Have you heard of tobacco industry positions  
22 that they do not market their products to children?

23 A. I have heard news accounts saying that.

24 Q. Have you spoken to any lawyer for any company or  
25 talked it any tobacco company executives where the

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1 subject of whether or not they market their products  
2 to children has come up?

3 A. No.

4 Q. Do you have a belief as to whether or not  
5 cigarette companies market their products to  
6 children?

7 A. Yes.

8 Q. What's your belief?

9 A. I believe they do not.

10 Q. What's that based on?

11 A. I don't see any ads on the Saturday morning TV  
12 shows advertising cigarettes, I don't see cigarettes  
13 being sold at Toys-R-Us, so I have no belief that  
14 cigarette companies would violate legal restrictions  
15 pertaining to smoking ages. I've never seen  
16 cigarette companies ever urging people to violate  
17 legal requirements regarding the age of purchase of  
18 cigarettes. And I've never heard of any example that  
19 the cigarette companies opposed such legal  
20 requirements.

21 Q. Is the availability of cigarettes, for example,  
22 in or around high schools a factor to consider in  
23 determining whether or not the products are marketed  
24 to children? "Children" being anybody under the  
25 legal age.

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1 A. Near high schools there are often convenience  
2 stores, convenience stores stock a range of products,  
3 that range would include cigarettes, but I don't  
4 think you can require that convenience stores limit  
5 their product mix just because they happen to be near  
6 a high school.

7 Q. That would be a bad idea?

8 A. I think it would be a bad idea because you're  
9 penalizing them from selling to adults who would come  
10 into their store. The fact that they happen to be a  
11 store near a high school should not affect the range  
12 of products they're allowed to offer.

13 Q. In the studies you've done about risk  
14 perception, what age groups have you looked at?

15 A. Sixteen and above and 18 and above.

16 Q. So 16 to 18 and 18 --

17 A. No, 16 to 21 or so, whatever that age group is,  
18 I could look it up, 18 through the early '20s as well  
19 would be another group.

20 Q. Okay. For sake of convenience, let's just say  
21 16 to 18 is one group and 18 to 21 is another.

22 A. Different studies, so one was --

23 Q. No, I understand.

24 A. I think one was like 16 -- Let's do 16 to 21 and  
25 18 to 21.

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1 Q. Okay. And what conclusion did you reach about  
2 risk perception within that band of ranges, that is  
3 to say, did the 16 year olds perceive the risks of  
4 smoking differently than the 17, 18, 19 or 20 year  
5 olds?

6 A. I don't have data for the exact age. I know  
7 where the range is, and generally what I found is  
8 that the youngest age group in the cohort or in the  
9 sample had the highest risk perceptions.

10 Q. "Youngest" being the 16 year olds?

11 A. That group had a higher risk belief than, let's  
12 say, 45 year olds or 60 year olds.

13 Q. Did the 16 year olds have a higher risk  
14 perception than the 20 year olds?

15 A. I think it was only broken up into a few age  
16 brackets, but I believe it was the -- I'm sure it was  
17 the highest risk perception in the sample, the 16  
18 year olds.

19 Q. Is this in the book?

20 A. It's all in the book.

21 Q. Can you find it for me? Do you have the book  
22 with you?

23 A. It's in the book on page 123.

24 Q. What does it say?

25 A. Sixteen year olds on average, 16 to 21 year olds

1 on average believe the lung cancer risk from  
2 cigarettes is 49 percent, and it drops to 42 percent  
3 for the older age groups.

4 Q. Do you report any statistics within the 16 to  
5 20-year-old age group?

6 A. No.

7 Q. From your work in that area, do you have an  
8 impression in your mind as to whether or not there is  
9 a difference in risk perception between a 16 year old  
10 and a 20-year-old?

11 A. I don't have data on that.

12 Q. What's your belief?

13 A. I don't have a prior except to the extent that  
14 since we observe an increase in risk perceptions as  
15 we move to the younger age groups, I would expect 16  
16 year olds to have a higher risk belief than 21 year  
17 olds.

18 Q. By an appreciable margin?

19 A. I believe so, because in the subsequent study  
20 when we included age groups starting only at age 18 I  
21 don't think there was as stark a difference in the  
22 youngest age group, so I think we do get an extra  
23 kick out of the 16 and 17 year olds in terms of  
24 higher risk beliefs.

25 Q. To the extent that a tobacco firm tracked

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1 smoking habits of people under the age of 18, would  
2 that lead you to any conclusion as to whether or not  
3 they were marketing their products or designing their  
4 products to appeal to people under the age of 18?

5 A. No, they may be simply tracking it to have  
6 information with respect to government regulation.  
7 To what extent are -- for example, are the smoking  
8 restrictions effective. They may want to simply know  
9 that answer.

10 Q. So they would want to study people under 18 and  
11 their smoking habits in order to find out whether the  
12 restrictions on sale were working.

13 A. That's correct, and you could see which states  
14 they were seen to work the best. That's one of the  
15 reasons you could study it.

16 Q. What's another reason?

17 A. Just general curiosity as to who your consumer  
18 mix is. You want to know who's out there using your  
19 product.

20 Q. And how about who your current customer is?

21 A. That's a different label for consumers.

22 Q. And how about who your future customer is?

23 A. We don't know that a 16 year old or a 15 year  
24 old who has a cigarette, first of all, is a customer  
25 that purchased or would be a continuing smoker.

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1 Q. Do you know the statistics of the number of  
2 people or the percentage of people who habitually  
3 smoke who started before the age of 18?

4 A. I don't know that percentage.

5 Q. Do you regard underage smoking in America to be  
6 a significant problem?

7 A. I don't know how prevalent it is, but it's not  
8 something I support so I would view it as a problem.  
9 It's not a desirable thing.

10 Q. Why is it undesirable?

11 A. If they're underage then they're smoking in a  
12 situation where they're violating the legal  
13 guidelines we've set up, so ideally we like people in  
14 society to adhere to the guidelines.

15 Q. Is that the only reason, that they're violating  
16 the law?

17 A. Well, as I indicated in my book with respect to  
18 that, there are a lot of decisions that we reserve  
19 for people to make until they're older, whether it's  
20 voting, or seeing R-rated movies, or driving a car,  
21 so to the extent that we want people to wait until  
22 they're adults to make important risky choices then  
23 that would be the same thing with respect to smoking.

24 Q. And the reason conceptually that we want them to  
25 wait to make risky choices is that that time line

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1 about adult hood suggests or infers that decisions  
2 made before that time about risky matters may be  
3 flawed.

4 A. Well it's noteworthy in my case, I was not able  
5 to find any evidence of flawed behavior through the  
6 16 and 17 year old age range so I don't base it on  
7 evidence of flaws, but at least in terms of  
8 consistence if we're going to make R-rated movies  
9 something you wait for, I would put smoking certainly  
10 in the same league and would reserve that choice as  
11 well until that age.

12 Q. Based on your risk-perception data, the youngest  
13 age group, 16 year olds let's say, has the highest  
14 risk perception of any group.

15 A. Sixteen to 21 year olds have the highest risk  
16 perceptions. And my inference, based on the recent  
17 survey of 18 and above, would be that 16 and 17 were  
18 probably a higher risk perception than 18 and 19, but  
19 I don't know that for sure.

20 Q. Given the fact that they have a higher risk  
21 perception than the older age groups, would you  
22 support lowering the legal age for making tobacco  
23 products available to, say, 16?

24 A. Well as I indicated in the book, the fact that  
25 they might make -- be making mistaken decisions at 16

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1 and 17 was something that we had no evidence that  
2 that was the case.

3 Q. Right.

4 A. However, I saw no reason why we shouldn't be  
5 consistent across the board in reserving important --  
6 important individual choices until the age of 18. So  
7 I was willing to let people wait to smoke until  
8 they're 18 just like I'm willing to wait and let them  
9 see an R-rated movie, or drink. Of course that's 21  
10 now.

11 Q. In terms of danger to the individual, you regard  
12 smoking as being in the same league with seeing an  
13 R-rated movie?

14 A. No, but I'm saying that there are certain  
15 things, whether it's R-rated movies or driving a car,  
16 voting, joining the army, all these are decisions  
17 that we say that you can't make at the age of 9, for  
18 example.

19 Q. And smoking ought to be one of those?

20 A. Smoking is a decision that has important  
21 consequences for your life and I want to reserve that  
22 for a group that we would designate as adults.

23 Q. From a purely risk-perception standpoint,  
24 however, there would be no negative consequence or  
25 cost, apparently, from lowering the age at which

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1 cigarettes are available to 16; right?

2 A. We don't know that 16 year olds are making bad  
3 decisions, but we don't know everything about those  
4 decisions either. So this doesn't indicate  
5 everything is fully rational at age 16, what it  
6 indicates is I don't have any problems that I've  
7 identified at age 16.

8 Q. Based on the absence of those problems, lowering  
9 the age to 16 and making cigarettes available to 16  
10 year olds would not result in any societal cost;  
11 right?

12 A. Well we don't have evidence on the problems, so  
13 since we have not shown that people can make reliable  
14 decisions with respect to smoking at age 16 on all  
15 dimensions, you wouldn't want to do that until you  
16 had more evidence, given the fact that you've made a  
17 decisions in a lot of other domains which are less  
18 harmful such as R-rated movies, to not let people do  
19 that at age 16.

20 MR. SILBERFELD: Let me mark as next in  
21 order a three-page document that bears Bates stamp  
22 number 170052238 through 40.

23 (Plaintiffs' Exhibit 3821 marked for  
24 identification.)

25 BY MR. SILBERFELD:

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1 Q. This is a Brown & Williamson document, Mr.

2 Viscusi, bears the date of 1973. Do you see that?

3 A. Yes, I do.

4 Q. At the bottom of the first page it's talking

5 about the market penetration of Kool cigarettes. Do

6 you see that?

7 A. That's correct.

8 Q. And it talks about little or no growth in the

9 share of users in the 26 age group. Growth is from

10 16 to 25. Do you see that?

11 A. That's correct.

12 Q. Take a look at the third page, under the

13 paragraph marked 3. It says, "Kool's stake in the 16

14 - 25 year old population segment is such that the

15 value of this audience should be accurately weighted

16 and reflected in current media programs. As a

17 result, all magazines will be reviewed to see how

18 efficiently they reached this group and other groups

19 as well." You see that?

20 A. I do.

21 Q. Does advertising to 16 year olds of cigarette

22 products violate the law as it existed in 1973?

23 MR. ATKESON: Objection, calls for a legal

24 conclusion.

25 Q. Go ahead.

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1 A. I certainly don't know what the law was.  
2 Second, I don't know whether purchase of cigarettes  
3 by 16 year olds was legal in the state of Kentucky in  
4 1973. Third, they're not advertising to 16 year  
5 olds, they're advertising to a 16 to 25 year old age  
6 band. Fourth, advertising primarily affects product  
7 choice, not whether you consume a particular product,  
8 so to the extent you're only shifting market shares  
9 there's no effect on smoking behavior.

10 Q. So here what you're saying is they're  
11 advertising to 16, 17, and 18 year olds, among  
12 others, to get them to switch brands, not to start.

13 A. I'm saying that's what advertising does. What  
14 their intent is is irrelevant, but that's what  
15 advertising does from an economic standpoint.

16 Q. Have you ever seen this document before?

17 A. Never.

18 Q. To the extent that Brown & Williamson -- Let me  
19 withdraw that.

20 What is your conclusion that this is Kentucky  
21 specific?

22 A. Well it includes Kentucky, and since it's  
23 written from Louisville, Kentucky, the question is  
24 was smoking illegal in the United States for 16 and  
25 17 year olds in 1973. I would want to know that

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1 answer before we start pursuing all these other  
2 judgements you wanted me to make.

3 Q. You did some historical analysis of advertising  
4 in the cigarette industry for the book; right?

5 A. I've looked at old ads.

6 Q. Did you find that cigarette companies did their  
7 advertising buys and designed their programs on a  
8 state-by-state basis, or did they do that nationally?

9 A. I did not examine where they purchased ads, I  
10 only looked at ads themselves that appeared in  
11 publications such as Saturday Evening Post.

12 Q. To the extent that firms do business nationally,  
13 it's your experience, is it not, that they do their  
14 advertising and design of their advertising on a  
15 national basis?

16 A. No, they may target their ads regionally, so if  
17 you're going to sell winter coats, you'd want more  
18 ads in Minneapolis than you would in Orlando.

19 Q. You don't sell winter coats nationally; right?

20 A. You don't?

21 Q. You do?

22 A. Ralph Lauren's winter coats, he advertises his  
23 winter coat line more in Minneapolis than he would in  
24 Orlando. They're in the New York City magazine  
25 because that's cold. I'm sure they're not in the

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1 magazine section of the Orlando Sentinel because  
2 that's a warm climate.

3 Q. You don't know whether this is a national  
4 program or not?

5 A. No, I just know it's written out of Louisville.

6 Q. And therefore you conclude it's only about  
7 Louisville.

8 A. That's just one example, but at the time it was  
9 not -- I had no knowledge that smoking was illegal  
10 for 16 year olds in Louisville in 1973. It may have  
11 been.

12 MR. McGAAN: Let me mark as next in order  
13 two pages of a multipage document, and Tim, if you  
14 want me to mark the whole thing, I'm pleased to do  
15 it.

16 MR. ATKESON: No, that's okay. On that  
17 previous one the pages were out of order within what  
18 you gave us. That was the only problem.

19 MR. SILBERFELD: What I'm telling you now  
20 is that I've intentionally only copied two pages --

21 MR. ATKESON: That's fine.

22 MR. SILBERFELD: -- in the interest of  
23 saving trees. This -- The whole document bears Bates  
24 numbers 680116947 through and including 968. The two  
25 pages of which I'd like to mark --

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1 MR. ATKESON: Sure.

2 MR. SILBERFELD: -- is 680116947 and 959.

3 MR. ATKESON: And I'm assuming we can tell  
4 the context of what's going on from the two pages?

5 MR. SILBERFELD: Yeah. Because I only have  
6 one question about one part of it.

7 (Plaintiffs' Exhibit 3822 marked for  
8 identification.)

9 BY MR. SILBERFELD:

10 Q. Mr. Viscusi, the two pages are a "Viceroy Agency  
11 Orientation Outline," that's for the Viceroy brand of  
12 cigarettes. I'll represent to you it's a Brown &  
13 Williamson document. If you would, turn to the  
14 second of the two pages you have. It refers in  
15 section 4 there, "VICEROY Marketing Information for  
16 1976." Do you see that?

17 A. That's correct.

18 Q. And the target audience here is males 16 to 35.  
19 Do you see that?

20 A. Yes, I do.

21 Q. Does that lead you to conclude that Brown &  
22 Williamson was designing its advertising for males  
23 age 16 to 35 in this year?

24 A. It just says that that's one target audience.  
25 That's a fairly broad group, 19 years, 20 years.

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1 Q. Does that suggest that the impact of advertising  
2 is the same across that entire age group; whatever  
3 the impact is, it's the same?

4 A. No, could be different.

5 Q. Or do you know?

6 A. We don't know, that's why it might be the same,  
7 it might be different. We don't know how different  
8 people within it would be affected, we don't know  
9 what information they have, where the ads appear.

10 Q. In terms of your view that cigarette smoking  
11 should be reserved for adults or people who reach 18,  
12 do you believe that cigarette companies should not  
13 target people under the age of 18 as the base of  
14 their business?

15 A. Well there are three critical age levels for,  
16 quote, adult hood. Age 16, which is when you can  
17 drive; age 18, which is when you can get into R-rated  
18 movies; and age 21 when you can do lots of other  
19 things. I think there's somewhat of an arbitrary  
20 distinction across those. I had no firm reason for  
21 setting it at 18 other than that seemed to be a focal  
22 point of discussions at the time, so one of the  
23 questions I want to have answered before I explore  
24 this memo would be whether smoking among 16 and 17  
25 year olds was legal in any state in 1976.

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1 Q. And if it was you'd have no problem with it?

2 A. They're complying with the law.

3 Q. You'd have no problem with it.

4 A. It's part of the age band of people in their

5 legal market, and if society's decided age 16 is

6 okay, I would have no problem with that.

7 Q. In terms of what was known in the decade of the

8 1970s about the potential health effects or the

9 probabilistic health effects of cigarette smoking,

10 would it be appropriate, in your view, to design a

11 marketing program that targeted the high school

12 student as the base of a company's business?

13 A. That's not what this is. Age -- Males --

14 Q. I'm past that. I'm asking you a different

15 question.

16 A. Well high school students are 14 year olds and

17 15 year olds, and if age 16 is the legal cutoff it

18 would not be appropriate to target people below that

19 level.

20 Q. Let me show you another document, consists of

21 two pages, 03537131 and 2.

22 (Plaintiffs' Exhibit 3823 marked for

23 identification.)

24 BY MR. SILBERFELD:

25 Q. This is a Lorillard document, I'll represent to

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1 you, from 1978. If you take a look at the third  
2 paragraph, it reads, "The success of NEWPORT has been  
3 fantastic during the past few years. Our profile  
4 taken locally shows this brand being purchased by  
5 black people (all ages), young adults (usually  
6 college age), but the base of our business is the  
7 high school student." Do you see that?

8 A. Yes.

9 Q. Can you see any justification whatsoever for a  
10 tobacco company having the base of their business be  
11 the high school student?

12 A. Seniors in high school are often 18. Depends on  
13 what the cutoff is for legal smoking.

14 Q. So if the legal age is 18, then the base of the  
15 business being the high school student should exclude  
16 the 14, 15, 16 and 17 year old; right?

17 A. A lot of high school students are 18 in high  
18 school. Those, depending on the cycle of the age  
19 group.

20 Q. And that's what you think this refers to?

21 A. It could be 17 year olds and 16 year olds. I  
22 don't know what the legal age for smoking was at the  
23 time, but the fact that you're picking up some high  
24 school students does not necessarily imply that  
25 you're violating any age restrictions that were in

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1 place in that time.

2 Q. Okay. In order to do the consulting work that  
3 you do that is unrelated to your research work, do  
4 you have to have the permission of your institution?

5 A. No.

6 Q. Did you have to have the permission of Duke when  
7 you were there?

8 A. No.

9 Q. When you do work of a consulting nature, do you  
10 perform conflict checks?

11 A. I'm not sure what you mean. Do I ask the  
12 university if they have an investment in the  
13 company? I have no investments, so I have no  
14 conflicts and I file a no-conflict-of-interest  
15 statement.

16 Q. With the university.

17 A. With the university.

18 Q. That's really what I'm referring to. So that  
19 the university will know whether there are any  
20 conflicts between the university on the one hand and  
21 you and whatever you might be doing; right?

22 A. They would know that.

23 Q. Have you done that with respect to your work on  
24 this, filed conflict forms?

25 A. I've not been asked by Harvard Law School to

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1 file a list of my clients, however I have informed  
2 the Dean of my law school that I was giving  
3 depositions on behalf of the tobacco industry.

4 Q. And you specifically named the tobacco  
5 companies?

6 A. I said "on behalf of the tobacco industry." I  
7 did not name the particular companies. I didn't  
8 think he cared. I had dinner with him, he didn't  
9 inquire which companies. He also knows I've been  
10 doing extensive work in this area, I've been quoted  
11 in the media on this topic, and so it's not a secret  
12 at all.

13 Q. I'm not suggesting it's a secret.

14 Have you filed any formal conflict forms with  
15 respect to your consulting work in tobacco  
16 litigation?

17 A. There are no conflicts.

18 Q. Have you filed any forms?

19 A. No, there are no forms to file. Harvard doesn't  
20 have any forms for me to file on this. I file my  
21 annual report on my consulting activities. That does  
22 not require that I list my clients. I have discussed  
23 my clients and indicated the nature of my activity to  
24 my dean, who is the top official of my school.

25 Q. And you've told him that the consulting work is

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1 for and on behalf of tobacco companies as  
2 distinguished from the lawyers?

3 A. I testified on behalf of the tobacco side in the  
4 litigation in the state cases. He can interpret  
5 that, I think, in a reasonable way. He's a law  
6 professor and dean of the law school. I think he's  
7 pretty sophisticated.

8 Q. That's what you told him.

9 A. I didn't tell him he was sophisticated, but I  
10 did tell him that I was testifying in deposition and  
11 I even told him the nature of the deposition and we  
12 discussed what happened during the deposition, so I  
13 gave him an entire post mortem, as I perceived it, on  
14 the Mississippi deposition the day I did it. I had  
15 dinner with him that evening.

16 MR. SILBERFELD: That's all I have, subject  
17 to the -- the issue of the disk.

18 MR. ATKESON: Okay.

19 MR. SILBERFELD: I'm not going to conclude  
20 the deposition, I'm going to adjourn it. We'll make  
21 a decision about how to approach the topic of the --  
22 the disk, whether that's by way of a separate motion  
23 or an ex parte application, but we'll both inform you  
24 and local counsel here about that, and then to the  
25 extent we get an order that that be produced, we'll

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1 use the remaining time on that subject if and when we  
2 get there.

3 MR. ATKESON: I take it, then, that there  
4 are no other subjects.

5 MR. SILBERFELD: There are no other  
6 subjects other than those that relate directly or  
7 indirectly to the disk.

8 MR. ATKESON: And that would just be --  
9 Because in the article he's given you and in the  
10 Florida calculations he's laid out a series of  
11 formulas. That would just be any Minnesota-specific  
12 adjustments or calculations he made?

13 MR. SILBERFELD: It's probably broader than  
14 that, Tim, it's probably about that page of his  
15 report. It's not about risk perception, and it's not  
16 about market share, I'll give you that much. But  
17 it's certainly about the methodology, whether that  
18 gets general or specific.

19 MR. ATKESON: I just want to be clear that  
20 you're free today or were free yesterday to ask him  
21 anything you want about the Florida calculations that  
22 you already have, anything that was in that April  
23 10th article, anything about how he takes Manning as  
24 a starting point, works that into an updated national  
25 number and then generically how he would go about

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1 moving that to a state number. You were free to do  
2 that. Is that fair? I mean, I just want to make  
3 clear --

4 MR. SILBERFELD: No, it's not fair, but I  
5 accept what you say. I understand what you're  
6 saying, and what I'm saying is that without the  
7 program and without the ability to run it we're not  
8 through with our examination on this subject. I'll  
9 conclude the examination on the other two, but we're  
10 going to just adjourn the deposition as to that last  
11 topic.

12 (Deposition adjourned at approximately  
13 1:43 p.m.)

14  
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21  
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23  
24  
25

1 C E R T I F I C A T E

2 I, Debby J. Campeau, hereby certify that I  
3 am qualified as a verbatim shorthand reporter; that I  
4 took in stenographic shorthand the testimony of W.  
5 KIP VISCUSI, Ph.D. at the time and place aforesaid;  
6 and that the foregoing transcript, Volume II,  
7 consisting of pages 261 - 419 is a true and correct,  
8 full and complete transcription of said shorthand  
9 notes, to the best of my ability.

10 Dated at Lino Lakes, Minnesota, this 18th  
11 day of September, 1997.

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15 DEBBY J. CAMPEAU, RPR

16 Notary Public

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## 1                   S I G N A T U R E     P A G E

2                   I, W. KIP VISCUSI, Ph.D., the deponent,  
3 hereby certify that I have read the foregoing  
4 transcript, Volume II, consisting of pages 261 - 419,  
5 and that said transcript is a true and correct, full  
6 and complete transcription of my deposition, except  
7 per the attached corrections, if any.

8

9                   (Please check one.)

10                  \_\_\_ Yes, changes were made per the attached

11                  \_\_\_ (#) Signature Page Addendums.

12

13                  \_\_\_ I have made no changes.

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20   W. KIP VISCUSI, Ph.D.

21   Deponent

22                  Sworn and subscribed to before me this        day

23 of                                   , 199\_\_.

24   Notary Public

25                  My commission expires:                               (DJC)

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